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California, Horn of Plenty

With 10 Illustrations and Map 30 Natural Color Photographs

FREDERICK SIMPICH WILLARD R. CULVER

Airlift to Berlin

26 Hlustrations and Map

Goggle Fishing in California Waters

With 7 Illustrations 12 Natural Color Photographs DAVID HELLYER LAMAR BOREN

Flags of the Americas

With 6 Illustrations 172 Paintings

ELIZABETH W. KING

A Woman Paints the Tibetans

With 15 Illustrations and Map 21 Paintings

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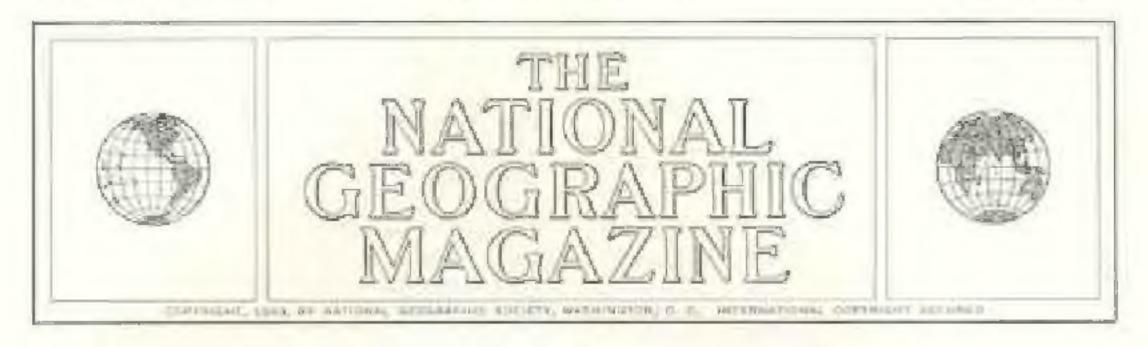
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California, Horn of Plenty

By FREDERICK SIMPICH

With Illustrations by National Geographic Photographer Willard R. Culver

I TOW CALIFORNIA rose from rags to riches is melodrama unique in our annals. Naked Indians are acoms where now men may pay \$55 for a tailored shirt and movie queens adubble \$10 steaks.

Not one white lived here till after Ben Franklin flew his kite and George Washington fought in the French and Indian War.

It was 1769 before Spaniards moved from Mexico to found San Diego and settle what's now Los Angeles County. Today it is richest in agriculture of all our 5,069 counties. Assessed property value of all California, for taxes, equals about half Uncle Sam's gold stock.

Gold from Factories, Farms

Since that 1849 gold rush mines have yielded about 52,300,000,000 in golden treasure. But now the State's cash income in only one year is six or seven times all the gold mined in the last hundred.

Much cash still comes from farms and orchards; yet today factories rise so fast that bulldozers rape orange groves to get more bullding sites. Los Angeles complains that all this new factory smoke dims its sanshine.

This State has no climatic unity, like Massachusetts or Pennsylvania. With its 1,190-mile Pacific coast line, it stretches from cool, wet Oregon beaches south to dry, scorching Calexico on Mexico's border. Here in this Imperial Valley 60,000 people live below sea level: prosperous Brawley is so hot in summer that pool hathers paddle under electric (ans. Yet within 300 miles Moant Whitney's snowy head rises 14,495 feet high.

So divergent is California, its own people

have talked of cutting it in two. Its rainy north, with fir, redwood, and penderosa pine forests, Mount Shasta, and Lassen volcano, is so different from its arid south.

There's a blasphemous fiction that the Lord and the Devil threw dice for California, against a trader. The Lord won Yosemite Valley, the Big Trees, all that's beautiful. The Devil won Hollywood and the race tracks. The trader won San Francisco, with the world's richest bank, the Stock Exchange, and steamships to the Orient.

Just now the State revels in a three-year fiesta, celebrating 1848's gold discovery, the rush of '49, and statehood in 1850.

To dramatize this past, a Centennials Commission uses rolling museum buses showing faded documents and rusty relics depicting State history. Included is that metal plate believed left by Sir Francis Drake when he landed in 1579, north of what is now San Francisco, to repair his Golden Hind, and claimed California for his Queen.

The Wild West Rides Again

About some old mining regions, in this boisterous pageantry, stagecoaches are robbed in mock holdups, bandits "lynched," crooked gamblers exposed, and tenderfeet hoaxed brawling make-believe bullies in big boots shower coins on dance half gals singing "Oh! Susanna," all as in the lucky days of The Outcasts of Paker Flat. At Angels Camp they run that jumping frog contest, as told by Mark Twain.

But back of this horseplay lies partial recapture of pioneer times, at once bawdy, melodramatic—and grim. Pioneer fun was scant; from sheer boredom men fought, wrestled, foot-raced, and had shooting scrapes. Music was often a fiddle

with one string missing

Now Hollywood's costly radio shows, music of "name bands," and lavish movies help entertain the world. Such films as Gone with the Wind may cost \$4,000,000 to produce; yet box-office receipts can total anywhere from \$25,000,000 to \$30,000,000.

As long as 35 years ago Hollywood was paying one pantominist \$10,000 a week; to a young actress whose first films were shown in the nickelodeons went an annual salary of \$500,000. Today even free-spending California marvels at Hollywood producers' extravagance.

The way motion pictures are made, how they affect human behavior, is another story. How they affect California architecture, patterns of furniture, and styles in carloads of sport clothes made here is part of this story.

Buckskins to "Aloha" Shirts

One woman to fifty men was the score in gold rush camps. Some pioneer women walked barefoot into California in frayed skirts and faded sunbonnets, trudging beside covered wagons.

Now women here are among the world's best dressed, "California fashions" in slacks, sweaters, pedal-pushers, sun, swim, and play suits sweep the land (page 590). Some 1,600 Lox Angeles firms use around 30,000 workers.

Sport clothes for men also originate here, and eastern buyers come in droves. Here is "a test tube for the men's clothing industry," says the Wall Street Journal. When "hot items" click, they spread from Pacific coast.

to Virginia beaches.

What pioneer bullwhackers in faded jeans would say to these "palest pastel and deep antique shades," or to "Aloha" shirts printed with monkeys, palm trees, or hip-twitching hula girls in grass skirts can't even be imagined. Had a playboy so garbed shown up at a stag dance in early-day "Hangtown" (Placerville), the miners would likely have ridden him on a rail or shot at the floor about his feet to make him dance, a stant I saw when the West was wild.

On a far bigger scale, conventional clothing made here sells for millions. Look at Apparel City, Inc., in San Francisco. Built to order, it covers 34 acres and is one of earth's largest garment-making centers, "the most startling advance in clothes-making since the advent of power machinery."

Till the last war, cash came largely from oil, farms, lumber, the sea, motion pictures,

tourists, and the wealthy who retired here for easy life and lush climate.

Now the State becomes industrialized; most newconers are skilled workers, and population

is more than 10,000,000.

Loading up scores of employees and their families. 1,116 people in all, the Prudential Insurance Company of America hauled this group from New Jersey out to Los Angeles and installed its staff in its new western home office, a Taj Mahal-like edifice two blocks long, on Wilshire Boulevard. Cornerstone here is a 3,000-pound rock cut from Gibraltar, a gift from the British Government, remindful of that advertisement not painted on this Pillar of Hercules!

Metropolitan Life Insurance Company turns Ingleside golf course at San Francisco into a

model residence town.

Rexall Drug Company moved offices from Boston to Los Angeles; from the East came

beadquarters of Carnation Company.

Many big automobile makers have assembly plants here; more aircraft munufacture is carried on in or about Los Angeles and San Diego than anywhere else in the country.* Shipbuilding slumped when war ended, and people thought airplane building would too. But now Douglas, Lockheed, Consolidated Vultee (pages 574 and 575), Northrop, Ryan, North American, and others are almost 100 percent occupied with Army and Navy orders.

Makers of farm machinery, food processing equipment, and electric motors join the grow-

ing parade.

You simply can't list all the antionally known and State industries which have built new factories here or expanded old ones. They run into hundreds; plant investment reaches astronomical sums.

From new plywood plants and sawmills in the Redwood Empire near Eureka to Holly Sugar Corporation's new plant in Imperial

Valley industry marches on.

New Steel Mills Rise in California

To California, nothing is so important as its growing steel industry.

Without local sources of steel, many new industries wouldn't pay; they couldn't afford freight on steel from eastern mills. But now from the Kaiser plant at Fontana, Bethlehem Pacific's mills at South San Francisco and Los Angeles, Colombia's plants at Pittsburg and Torrance, a converted aluminum plant at Los Angeles, and a few smaller mills the State draws increasing lots of steel.

* See "San Diego Can't Believe It." by Frederick Simplich, Navional Globbarnic Macazine, January, 1942



U. S. Patroni of Rectambles.

Like Tiny Tents of a Lilliputian Army, Paper Cups Protect Infant Squash Plants

A branch of All American Canal, from the Colorado River, now waters Couchella Valley. This turns a quendam desert into one of America's richest garden spots. Date groves, background, are descended from suckers imported years ago from the Middle East.

From dry Searles Lake on Mojave Desert American Potash & Chemical Corporation extracts chemicals for farms and factories (page 585).

Sugar Output Is Stupendous

That giant refinery at Crockett and another at the foot of Market Street, in San Francisco, handle Hawaiian raw sugar. In an average year they make 17,000,000 bags, or about 850,000 tons.

From its sugar beets California made in the 1947-1948 season nearly 9,000,000 bags of sugar (page 578).

By-products make stock feed. Admiral Byrd once took live cows along on an Antarctic expedition and kept them in good condition on beet pulp.

Nothing edible grew here in Indian days that is bountiful now; no wheat, rice, barley, pears, apricots, oranges, grapeiruit, potatoes, cantaloupes, olives, asparagus, prunes, avocados; no chickens, sheep, hogs, or cattle,

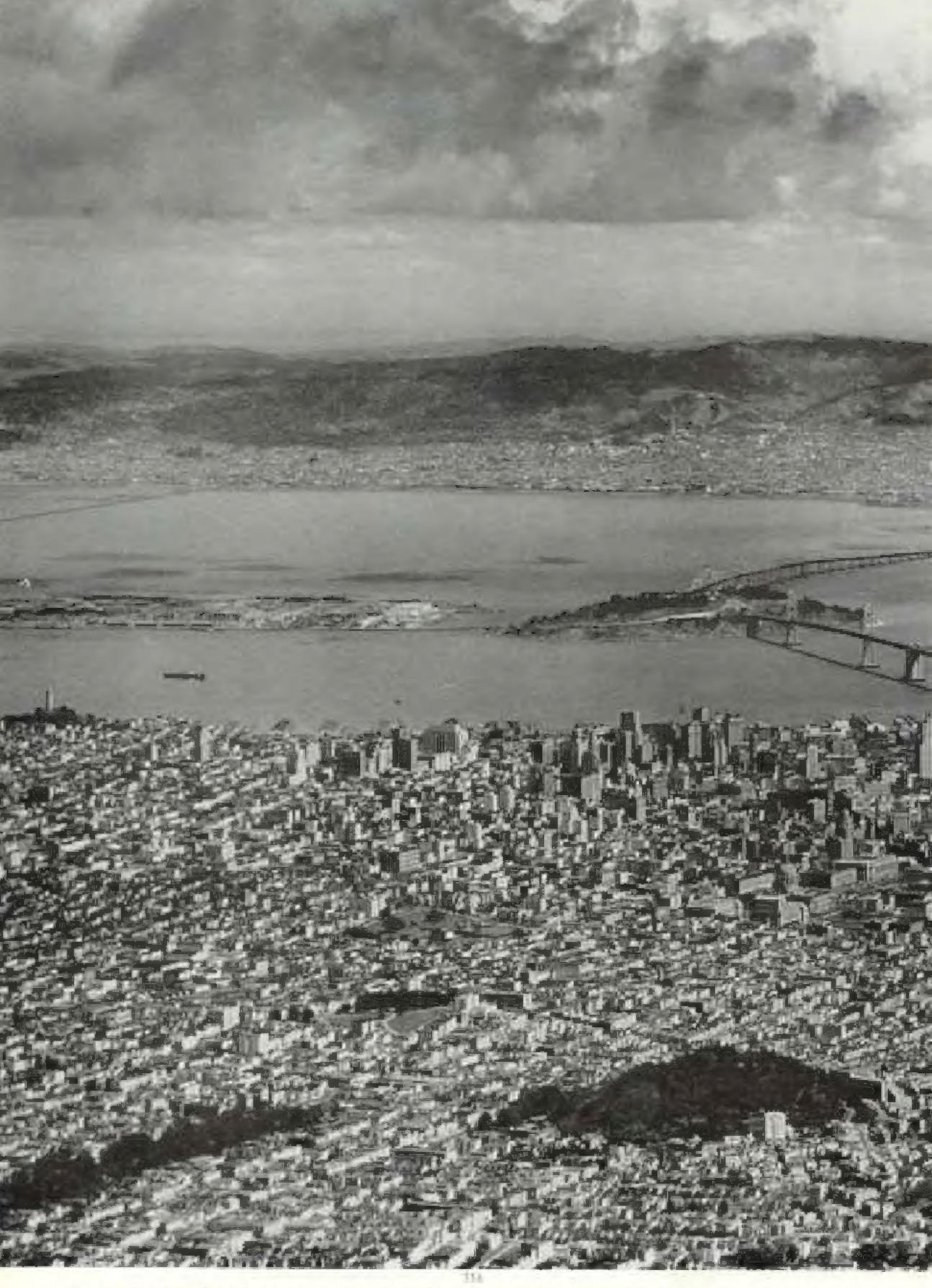
The road to orchard riches started with the orange (page 559). Its tale in California shows man's horticultural legerdemain. It takes 1,250 glasses of water to make one glass of orange juice, counting irrigation, water used by workers, etc.

Man brings water hundreds of miles. Nature wraps a rind around it and sweetens it, man ships it out and sells it! But water is the most precious thing in southern California; some say she can't afford to export it, even in oranges.

Here works that great cooperative, California Fruit Growers Exchange. Its general manager, Paul S. Armstrong, says 1948 was tough for growers in all citrus States; their 450,000 carloads could not be sold at adequate profit. Reason? Rising costs of labor, materials, and freight.

Last year about 35 percent of the national citrus crop, or 62 million cases, reached the market in cans.

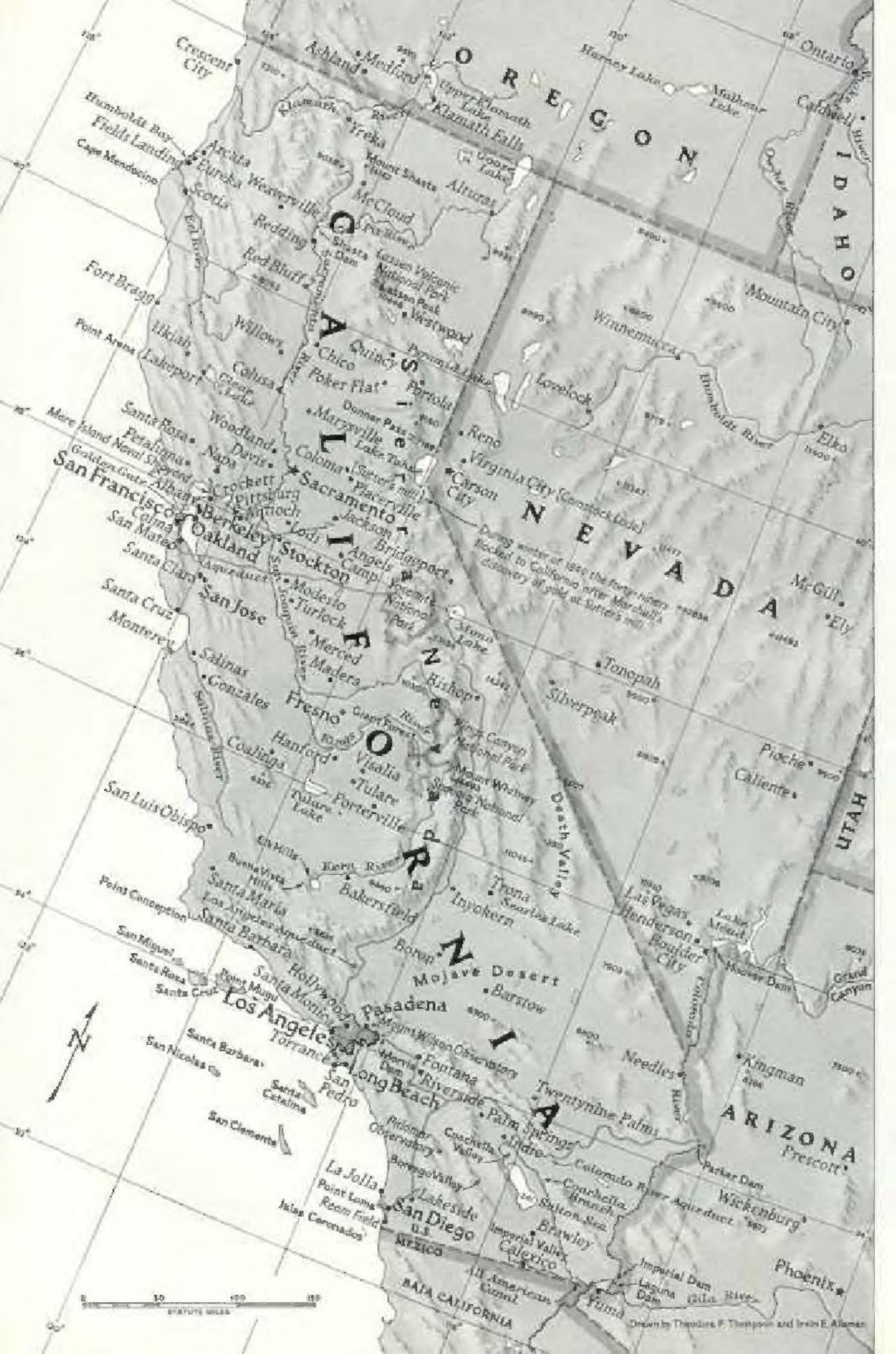
This canning job vastly extended use of



About Spectacular, Panoramile San Francisco Bay Is Strung a Necklace of Glittering Cities San Francisco (foreground) looks across to Oakland, Alameda, Berkeley, and Richmond.



Such Incredibly Henry Traffic Crowds This Buy Bridge That Another Is Planned Golden Gate Bridge (to left but unseen) also carries heavy travel streams.





Jeho Majorie from Los Asgirles Times

San Diego County Oranges Start on Their Long Ride to Distant Breakfast Tables

Water from the upper Colorado, hundreds of miles away, finally reaches California irritation disches. A share of it goes into oranges, re-experted as fruit and juice. Some may reach the very spots where the Colorado River rises.

juice, but it was only a salvage operation. Growers made no money; many lost. Yet now, use of citrus fruit in all forms is at the highest level known.

Sales to Europe, once a good market, decline because Europeans lack dollars with which to pay:

California's farming is diverse; 212 different crops move out by carloads. No other State sells such heaps of almonds, walnuts, femons (page 580), navel oranges, raisins, dates, prones, and dried figs; clingstone and canning peaches (page 571), artichokes, and special types of melons and beans.

Here only top quality produce can pay dividends. The western grower can't pay freight across the country to eastern markets on any output except the best.

Supplying chemicals to ranchers is specialized. Research on new materials and better use of those already known is done by Shell Oil Company, Inc., in a laboratory at Modesto in San Joaquin Valley (page 587). Similar studies are made by Standard Oil Company of California.

Farming here is more than planting and harvesting. Science still looks for a cheap, easy way to kill such weeds as the morning-giory, star thistle, and puncture vine.

Work in a Giant Farm Laboratory

Toxic soil, tree decline, plant blights are all problems. Against insect peats war never ends (pages 564 and 587). At the University of California a staff of more than 100 wages timeless combat. In one campaign they brought in Australian beetles to eat up the evil Klamath weed which poisons cattle.

Across the Bay from San Francisco, at Albany, is our Department of Agriculture's Western Regional Research Laboratory, where Uncle Sam studies new uses for western crops.

During World War II. Albany lab's main job was with dehydrated vegetables and eggs.

Now much of its work is aimed at better frozen foods and new food products.

Albany scientists also seek new uses for wastes such as chicken feathers and pulp or

waste juices from canneries.

Subtilin, an antibiotic now being tested experimentally in treating tuberculosis, was discovered at Albany. Its organism is grown in juice from waste asparogus butts.

Most Cotton Per Acre Grows Here

Except tobacco, peanuts, and soybeans, which are not produced commercially, this State grows nearly everything taised elsewhere in the Union.

Most cotton per acre grows here; the 1948 crop was about 960,000 bales. In season, carloads of spring lumbs are exported. Yet, the year round, the State is so short of meat-bearing animals that in 1948 it imported 3,838,000 head,

Lard, frozen and canned means are also heavily imported. California pays for these

imports with things shipped out.

Rice grown here is not the type Americans prefer; so it's sold abroad. This State makes more wine than any other; it picks heaps of hops and dries them in specially constructed kilos.

While not a great apple State, California grows kinds that dry well; so 40 percent of our dried apples come from here.

Of all our avocados, more than three-fourths grow here; San Diego County alone has 3,363

avocado groves (page 565).

Lonce saw a solid 55-car trainload of raisins move into Stockton, there to load an ocean vessel for London, a vessel that steamed away by ship channel through truck gardens for the Golden Gate. Of prunes, peaches, apricots, figs, apples, pears, etc., the State annually dries about 600,000 tons. Last year 240,000 tons went to help feed Europe,

Petaluma is world-famous for chickens, but from 25 other States and Canada deessed poul-

try moves in.

With California's population growth of 45 percent since 1940, no wonder statisticians get a headache trying to figure the State's

changing trade balance!

Ever since Muscovites chased sea ofters here, this State has reaped rich ocean harvests (page 583). From Aluskan waters packers bring shiploads of salmon; to gournets no tasty dish is more tempting than big fat crabs boiled over wood fires in open-air pots along San Francisco's Napleslike Fisherman's Wharf.

Men of Galilee never drew in bigger netfuls than Monterey sardine crews. But they can work only in the dark of the moon, when the sardine's phosphorescent wake makes him visible!

Recently, when sardines suddenly grew scarce, some irate fishermen blamed sea lions. Sometimes a sardine net costing maybe \$20,000 is ruined when sea lions get tangled in it; then fishermen are allowed to shoot them.

Tuna capital of the world is San Diego, With San Pedro it scours the seas for 2,400 miles away. In feed holds some boats carry 400 tons of tuna and on some cruises are gone for three months. Six major canneries operate

in the San Diego area.

I watched one man at work here who smells fish for a living. He smells more fish than anybody on earth. As a conveyor belt carries tuna from ship to packing plant ashore, he stands beside the moving stream, and smells each fish. If he doesn't like the smell of one, it's thrown aside.

Any fine day from April to October blue waters off Point Lona, as far out as Islas Coronados, are dotted with powerboats of parties fishing for sport. Speeding through these depths go tuna, barracuda, yellowtail, sea and kelp bass, and others. During late summer months the mighty marlin and broadbill swordfish cruise these waters in numbers; then charter boats, with their special rigs, carry sportsmen out to battle.

No Other Region Wraps So Many Things in Paper

Some 200 factories make paper and paper items, from roofing to packing boses. Just now a new pulp and board mill is being completed at Antioch, but most pulp comes from the Pacific Northwest.

Crown Zellerbach Corporation of San Francisco owns five mills in Oregon and Washington and tree farms of 500,000 acres. It uses belicopters to plant tree seeds, employs 35 graduate foresters, cuts tree crops like farmers cut bay, and with a powerful water spray can debark a 42-inch log 20 feet long in 50 to 40 seconds!

Fibreboard Products, Inc., of San Francisco, alone makes about 290,000 tons a year of

boxboard products.

Mountains of wased paper wrap bread, candy, potato chips, and frozen-food containers. Acres more are used as "hot caps" for tiny plants (page 555). Hundreds of miles of (reight cars loaded with fruit and canned goods, all wrapped or boxed in paper, leave here every year. Towels, napkins, and tissues consume scores of tons.

Some national weeklies print their West Coast editions in California; lithographers,



Big Bicyclelike Wheels of 1912 Helped Puny Man Recover Gold

Electric motors turned these 60-foot "sand wheels," Buckets on their rims lifted old tallings from Kennedy Mine near Jackson and damped them into chutes that led down to a mill, where gold was recovered.



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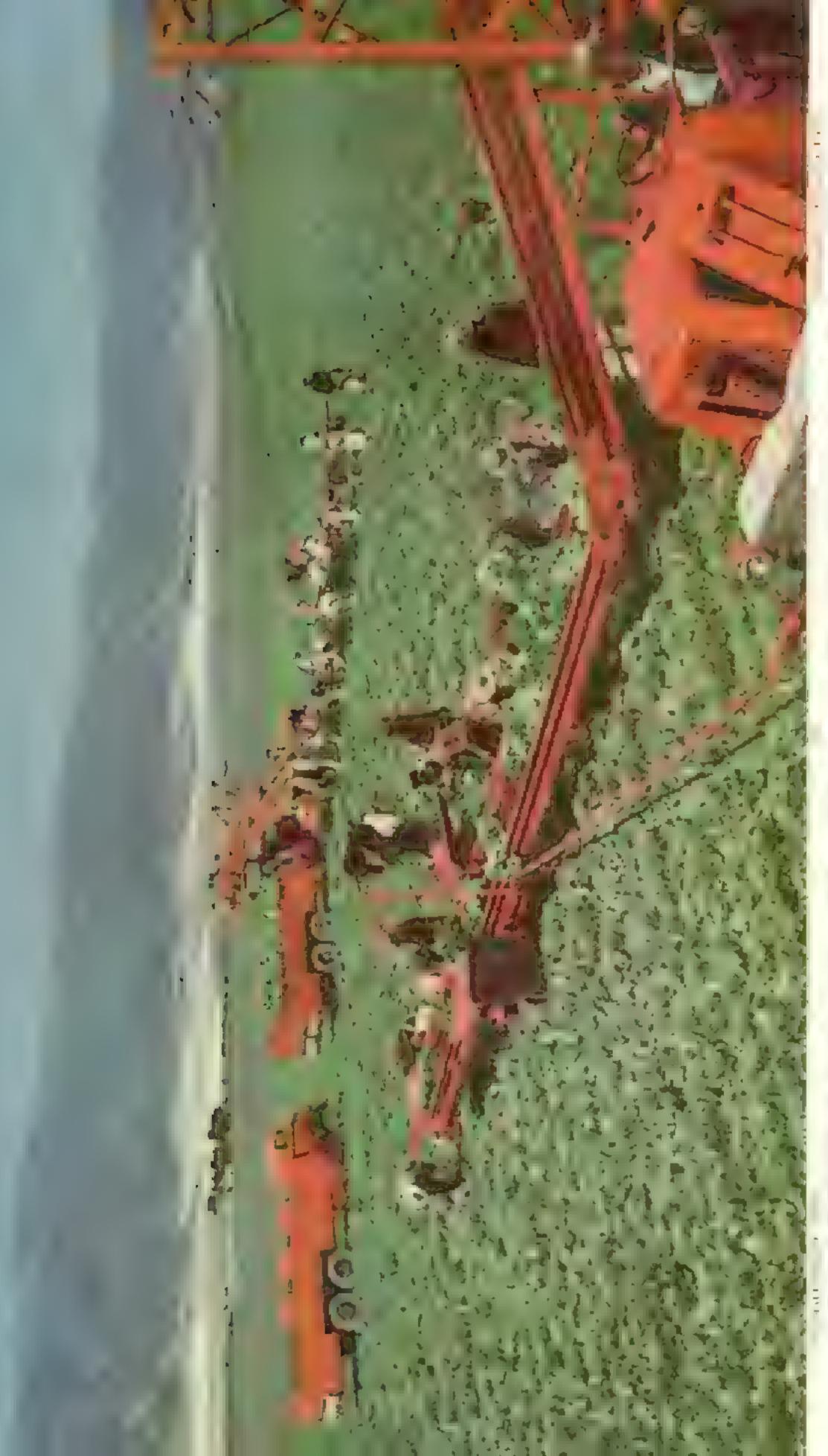


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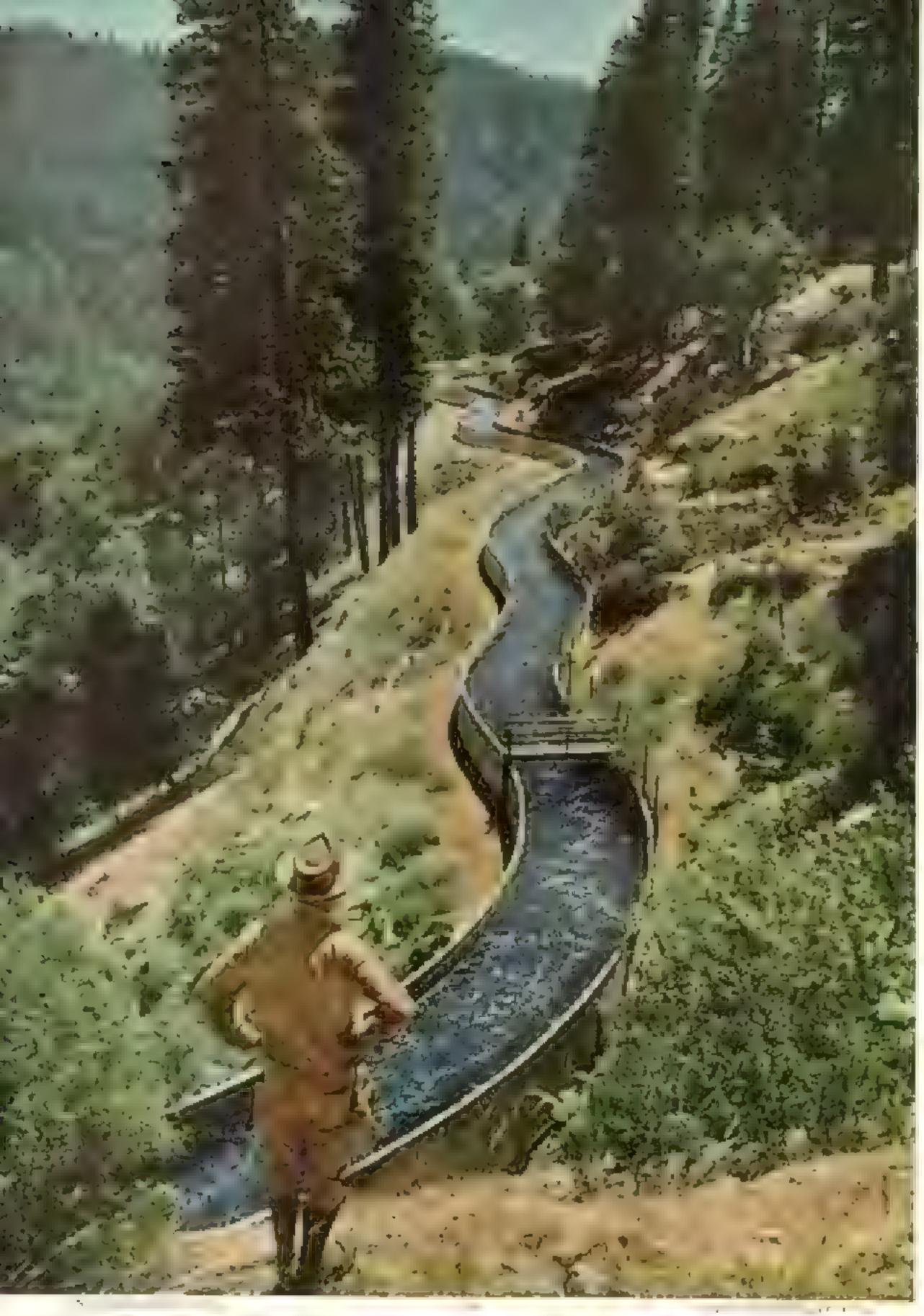




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Down Sterra Siopes Water Ruses in Concrete Places to Furn Wheels in Hydroelectric Plants

making labels for cans, and p b printers use still more. The National Geographic above eigenlates nearly 190,000 cm; as la California.

In humbering, the State saws logs at the highest rate in history (page 558). Most houses are worden, and new buildings rise by thousands because of population growth.

What They Do Here with Electricity

California has 122 hydroelectric plants and

29 steam electric generatoric plants.*

Normally, 70 percent of energy used is hydroelectric; the only out-of-State source is Howev Dum, which sends power to Los Angeles. Systems interconnect with 85,000 rules of transmission and distribution lines.

In 1947 (kitest records available) energy used was equal to labor by 257,800,000 men

warking a 40-hour week for a year.

More than 90 percent of a I farms are electrified, using some 50,000 electric pumping plants

Poultrymen use power to batch, clear, and grade eggs, brood chicks, and stimulate egg laying by prolonging day with artificial light.

Stockmen clip sheep and groom cattle with electricity. Electric fences cut tending costs. After one or two hurndess shocks arimals learn to stay away from electrafied wire fences.

Orchardests shake note from trees with electric vibrators. Large propellers stir the air to repel frest. Electricity is used to sort

clean, and was citrus fruit.

Men sterilize soit with this energy to prevent infestations and kill weed seeds, and best soil to aid plant growth. A tolets so grown have mutured in 20 days instead of taking all winter,

Nearly al. power used in manufacturing is electric. One machine in San Francisco makes sandwithes at the rate of 3,000 an boor.

In patural gas pipes, pressure and tate of flow are measured and the data sent to distant control stations by a telepretering system.

Along the coast ford orns operate with a recompressed by electric motors. Planes flying to and from Hawaii keep on coastel stations.

At the San Francisco Naval Shippard a new crane, world's most powerful, litted a weight of 630 tops, the greatest lond ever hosted by man, and set it down again upon an egg so gently that the shed was crucked but the yolk not broken.

At the University of California at Los Angeles a mechanical brain called a "differential malyzer" can accomplish 17 man-years of

mathematical work in two weeks.

Since miners paid gold dust for picks, blankets, and coffee, San Francisco has been a free-spanding money center. Sailors love it:

When I was a reporter under Fremont
Older on the Buttetin we always got paid in
gold roin; to this day, Californians like "band
money"—big sliver dollars, rather than paper

that folds.

Some walls of the San Francisco Stock Exchange Building are vivid with hold murals by Mexican artist Diego Rivera. Today this Exchange holds a leading position among regional markets, and here by the Golden Gate the Wall Street Journal publishes a Pacific coast edition.

In turbulent days when Wells Fargo stagecouch guards shot it out with bandits while drivers lasted their four-horse teams into a dead turb, that company started a bank here. Now it such Wells Fargo Bank & Union Trust Co., and its museum of pioneer relies and early-day documents is one of California's most interesting exhibits.

World's Biggest Bank Grew Up in California

Then there's A, P, Ginemani, onetane produce dealer, who started the Bank of Italy for hitle people. It's hank he ped school children spen accounts, they could start—and still do—with as low as one rent'

When earthquake and fire hit the city in 1906, Gamuni ind his bank's funds under a lead of fruit to fool I mters and hauled them

safely off to San Matoo.

Today, with about 4 000 000 deposit accounts, the present Bank of America National Trust and Savings Association has become

the world's biggest bank.

No western rity ever felt the financial frency that thisled San Francisco when Newada's the first of the form was a fine personance who rule pulses in Not the first of the city into its glittering, golden age.

Slaters crept in, too. One group salted a Rocky Mountain mine with uncut stones bought in Rotterdam and sold stock in this "dans and mine"—tid some victim found a few cut stones that bad been accidentally

mixed with the rough ones!

Fractic men scorred the seas for ships and more ships to rush gold seekers and supplies here in the heetic days of 30, and by July, 1850, ships in San Francisco Bay deserted by crews who went gold mining and hered around 500°. Till then, few vessels cut these empty waters, except when a New England who interest came tracking hankee goods for hides

* See "The Fire of Heaven - Electricity." by Albert W. Atwood. National Glassicarem Macazine, No-



Like Paol Balls on a Tuble, Turkey Eggs Crowd This Rock

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It's significant, too, that the last war breard to California close to 14 hillion roll as in war contracts, and her shipments to Army and Navy bases in the Pacific, computed a total ries is treatly to be happened to the pacific section.

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the closer to Asia. With that ancient fend record y, its desting is not well.

Chifornia Helps the Navy's Pacific Tasks

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through mentions for highways, radways, and irrugation works; mines, rock quarties, and oil fields use tons of it

Building Boom Reaches Even into Descrit

Los Angeles in 1888 lay flat on its back. knocked out by the collapse of a get-rich-quick and to an, in which railmed rate wars out tickets so low there was one day you could ride from Kansas City to the coast for a dollar.

Newcomers fled by thousands; jack rabbits moved back to where, months earlier, promises served free lambes and auctioned off

lots while bands played.

That beam fided because all the team had was people, to only speculators. Those who storvived, and stock, remembered this lesson. For years they fought to get water, industry, skilled workers, real farmers and fruit men, not just and gamblers.

From 33,381 in 1880 today's population has grown till Los Angeles County has close

to 4,000 000.

Foday most newcomers skilled in some kind of work can find jobs. But housemaids? Cooks? Try to find out! Shops, stores, canning plants, factories take them all, hence the boom in muchines that claim, wash clothes, dishes—everything but the haby.

In the period 1941-48 about 1,480 new Los Angues factories have been built and 2,500 others expanded. Of these projects, 160 of the largest represented outside, nutlimally known firms. Metal products and foodstoffs

13d in recent years

More than 700,000 motorcars enter the developing district delly, and a gigantic free-way to analyz the exercise streets.

This unparalleled building boom stretches through coast towns all the way to San Diego, whose population has more than doubled during the last ten years. But houses are still so scarce that the beands live in traders

Even out on dry, unce litted Riverside and Imperial County deserts barros and prospechars fire now before the tradders. In Borrego Vadey, northeast of San Liego, I talked with old-timers who remember the homestead days, when some land beteabouts might be bought for as little as a dollar of two an acre—maybe SiG for the very best, that had water. Now here a faxurious resort truel has risen; vast vineyards flourish, and even paraties come ent clean and white from what was a verifible Sahara of sand—till they put water on it

Lats in Palm Springs, a dusty little Indian village when I saw it first, may sell now for \$1,000 a front foot. Its Desert Indisk in our army the world. Thosens of movie stars

have thilt Hellywood-style homes here, private planes are we in flocks for week ends, and there are more than 200 private swimming pools. One I saw, in Borrego Valley, had a plate glass wall about it to keep out wind but let in sun!

from Palm Springs to India with its vast date groves, new desert, colonies spring up fiven the shures of Salton Sea, so long a silent, salty waste broken only by coyote howls echo now to the walls of beach club

ક્લામુમાં માત્રક,

Then there's Tunisianlike Twentypine Falms. Tenderfeet sumply can't believe that such an onese, with ad-year residents, churches theaters, schools, and even its own airport could possibly emerge from this dust-blows wildeness. But here it led. Again, water does it—underground water from living springs.

What such settlements, with abundant food and water, would have meant to hungry, thirsty spanish explorers like Juan Bautista de Anas—or that real California pathinder,

Jeded in Smith!

And what a boith! When a grizzly hear chewed his car off, a pull sewed it on again and Smith mon ded his horse and went on to explane the country.

OI and Gas Have Yielded Billians

This States for browst, milked for oil and gas, gives i to to industry.

California now has 20,076 producing oil and gas wells, of which 297 are exclusively gas wells and the remainder yield oil.

there are three major oil-procuring areast are but to be the beginning the large training areast region (page 586), and the Constal region

"Petroleum reserves in California are estimated at J.500.000.000 harrets," said from E. Gilman, then executive vice president of the Western O Land Gas Association. "At present rate of profaction, this oil would lest ten years. However, our reserves are being added to, either through discovery of new fields or extensions of present fields, so that the State has for many years been holding its own

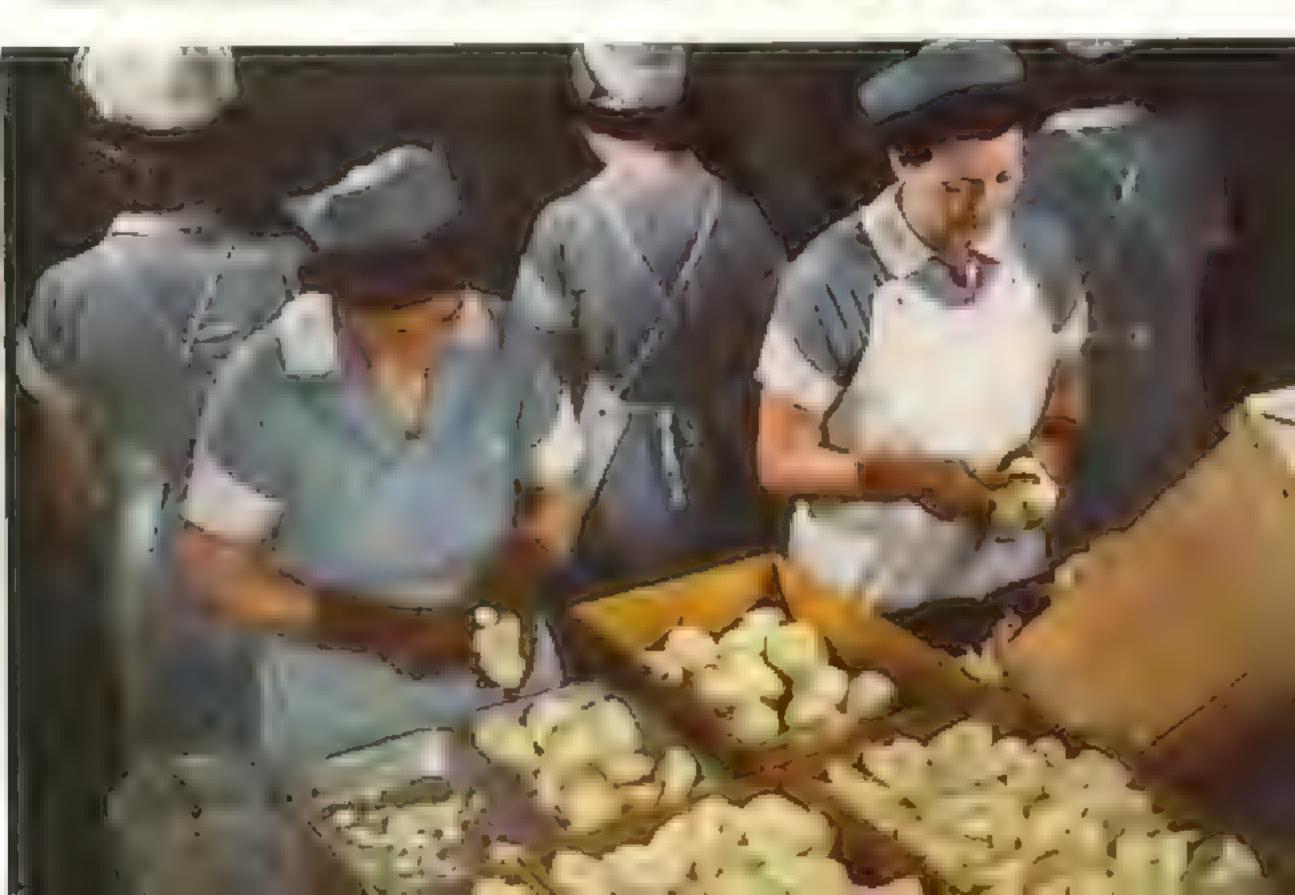
because of heavy demand created by Californ a's great increase in population, it is expected that it will be necessary to import crude oil within the next few years, inless there are important discoveries of new fields."

Natural gas is in short supply, partly because of the need for using an increasingly large amount for representing oil fields to get the most oil out of the ground, and partly because of the heavy demand created by population growth. So a long pipeline brings in an additional supply from Texas and New Mexico. In theory, a rabbit of ald now run



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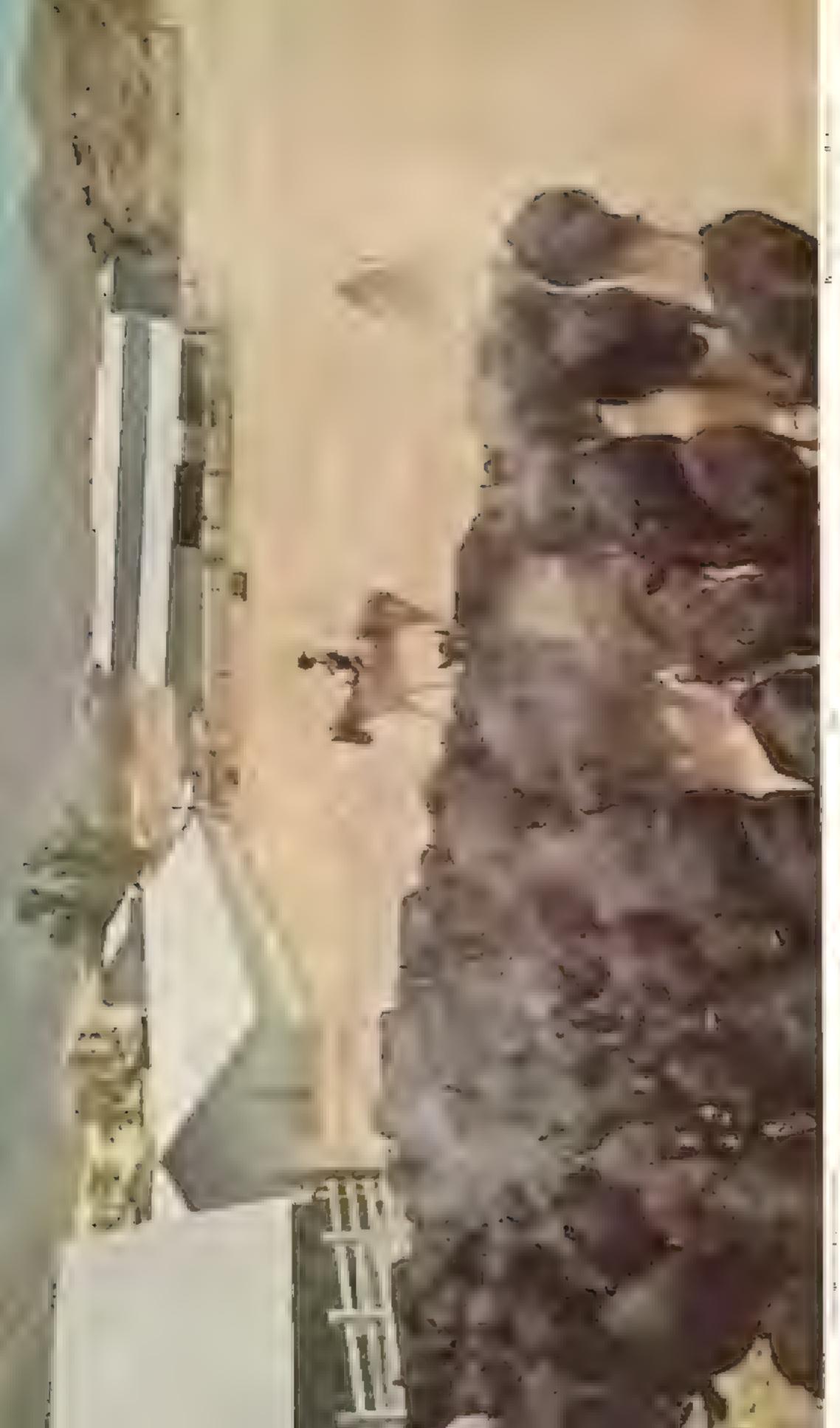


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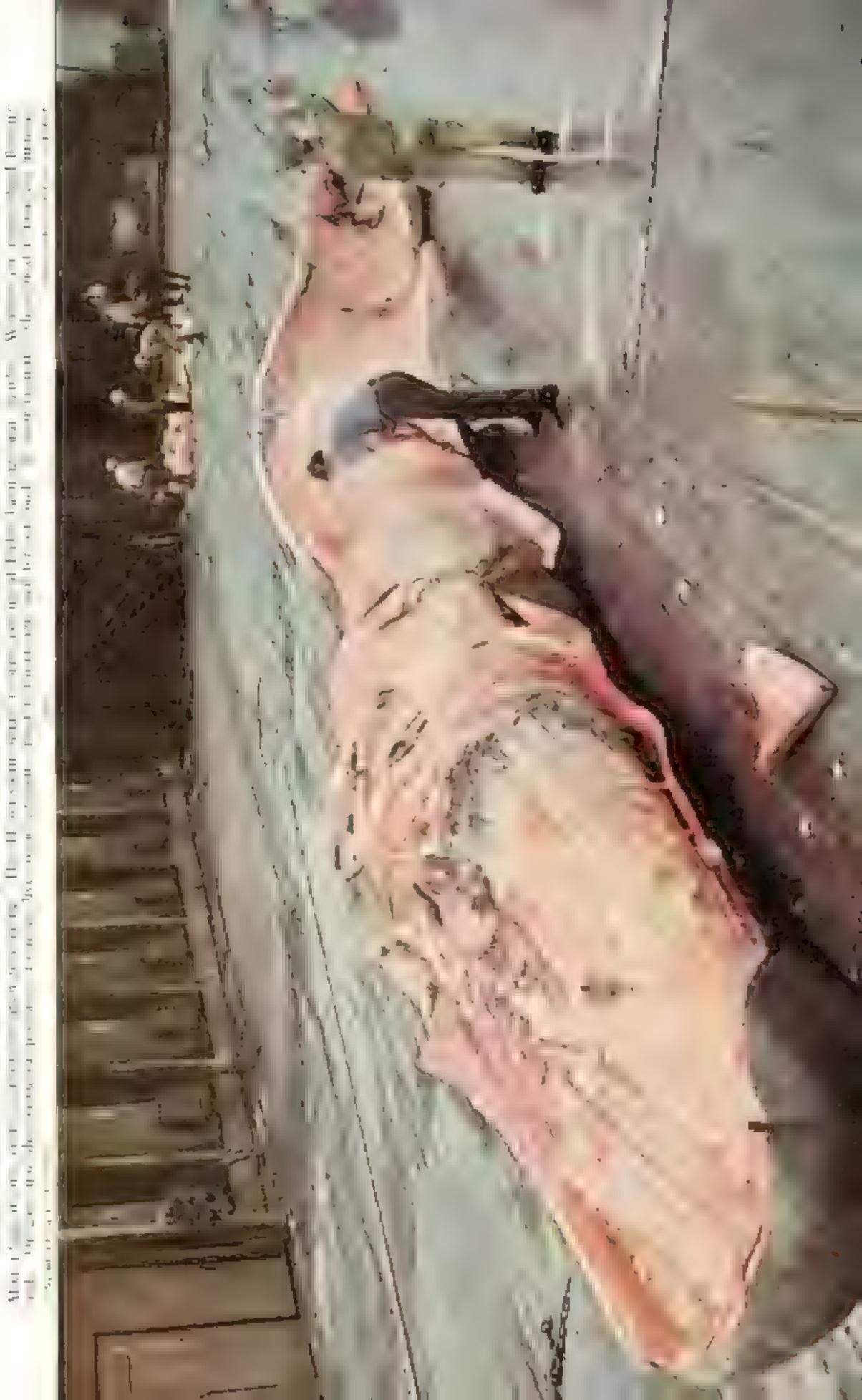
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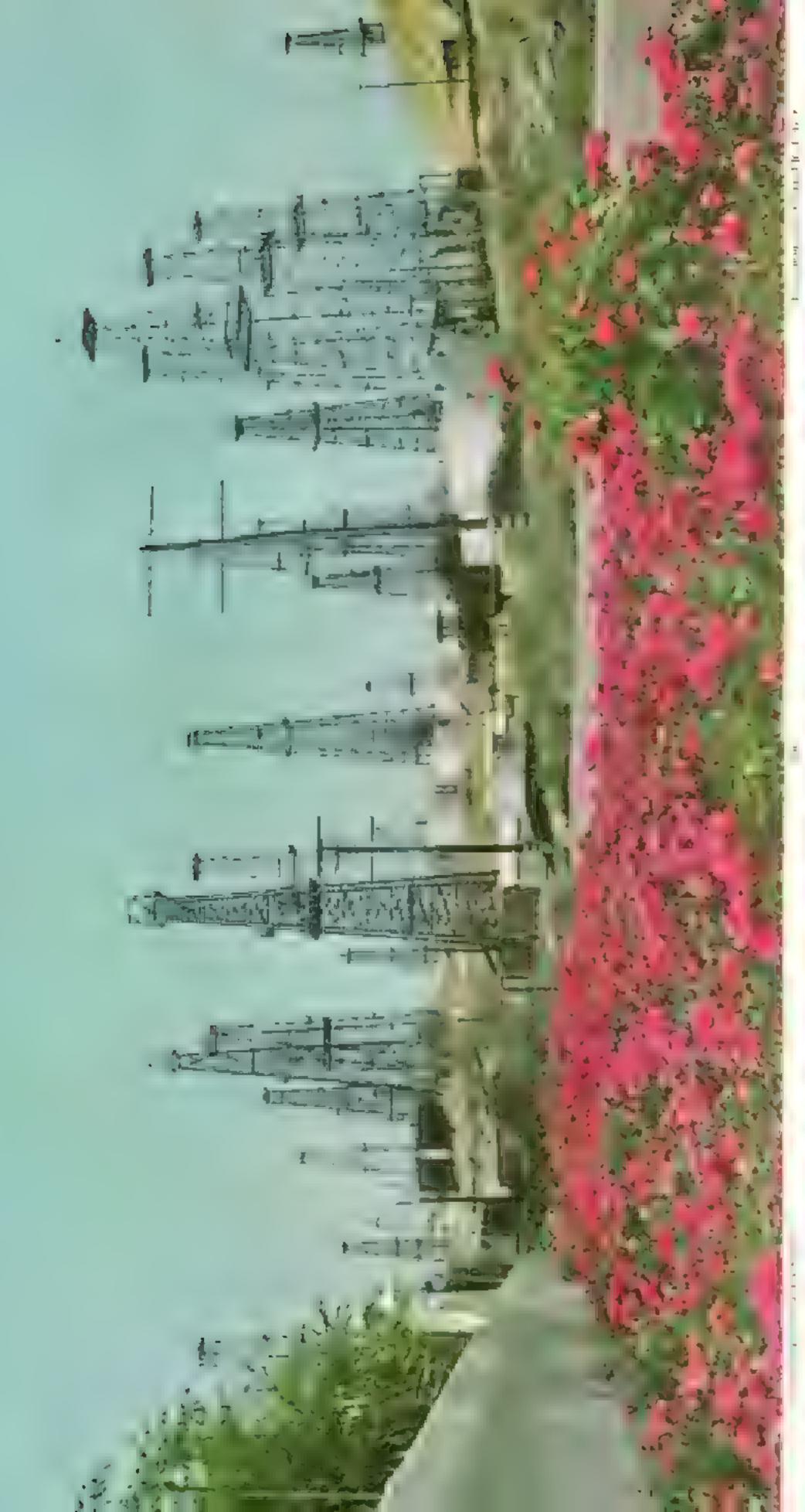
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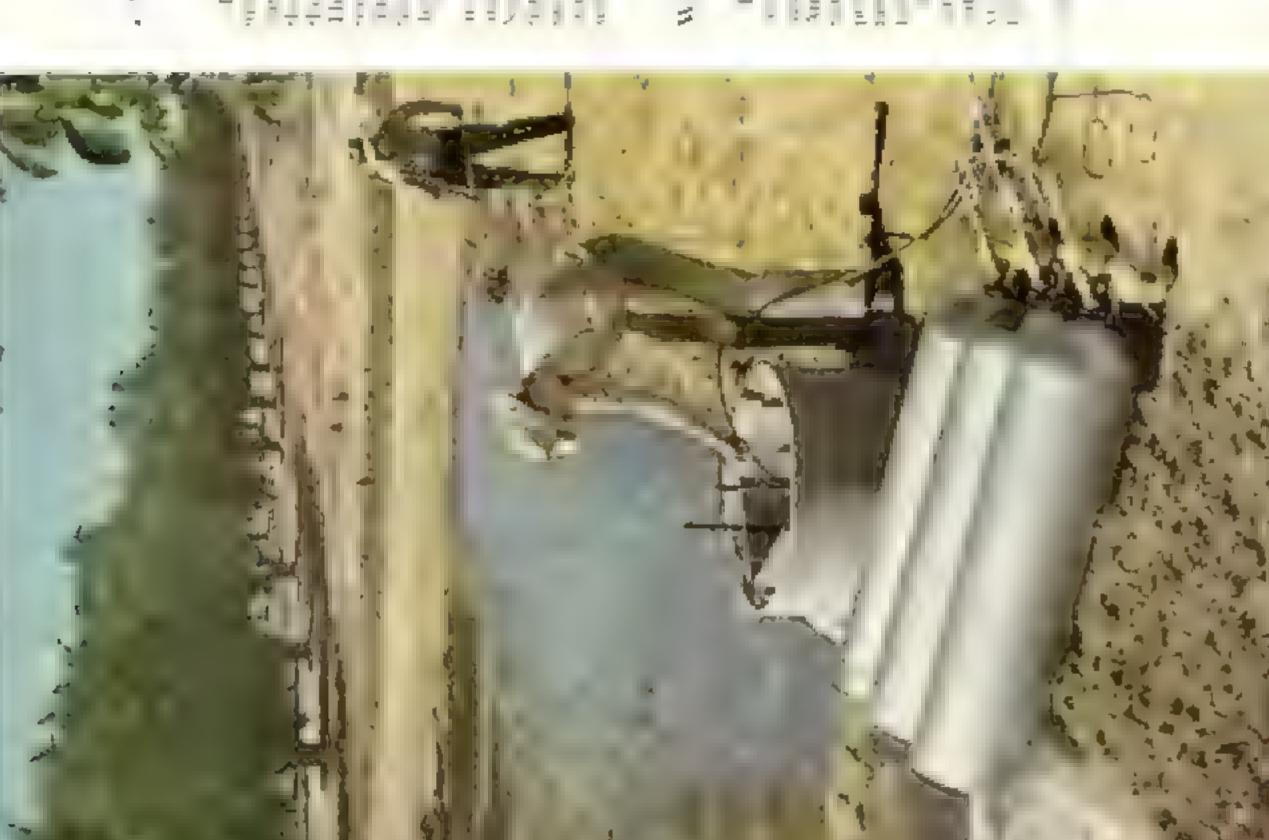
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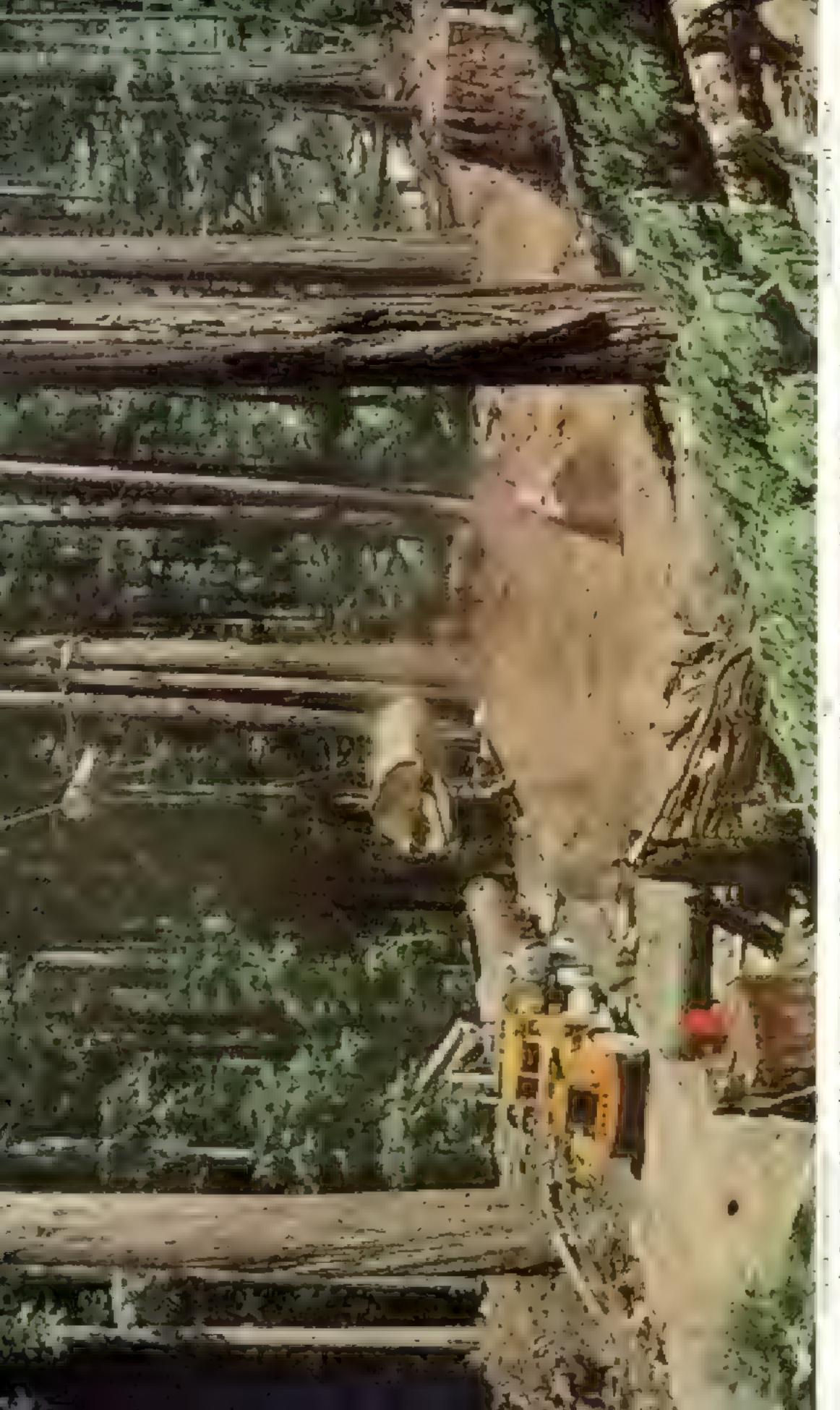
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all the way from California to New Yorkin an undergowind gas pipel nel

Far more than oil and gas, however, romes. from these holes in the ground. Waste goes

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Di yields door finjshes, animal dips, explos ves, synthetic paints, and plastics. It yields "soupless soup," too, and waxes, printing inks, dyes, drugs, cold creams, candles, and wire and cable assulaters.

From Standard Oil Company of California. the State's largest oil engeern, you can still buy axle grease and the same old harness oil as used by famous stage drivers like Hank

Mank of Hargiewa.

History is builded with eulogy about spadework dune here by Spannirds. But Sacra mento, State capital since 1854, is Spanish in came only. It was built by and for granges. Here was the State's hest great fracting post. Sutter's Fort, begun in 1840. Capt. John A. Satter, a Swiss adventurer, got rich trading with Yankee for trappers and covered wagon causvans.

Trade and Gold Boomed Sacramento.

Right under Satter's pose that event occurred which started process California on its road to riches. He sent a hired hand, James W. Marshall, out to locate a good millsteand Marshall found gold. That was January 24, 1848; the rash that followed startled the world, but rained Sutter. Stampeding miners rabbed his store of food, blankets, hardware, arms, and stripped his west transit of cattle. horses, hogs, and sheep.

Sutter died poor. But he lived I mg enough to see Sacramento turn into a wild, wide-open roaring camps, where it cost \$64 to slice a home, and eges brought 50 a slower.

Excited miners stumbled into town with gold in salt sacks, yeast cans, or old socks. One, diaging a grave to bury a dead "purd-

ner," found a \$22,000 nagget.

In 1864 Sacramento spaded up earth to start the western section of our first transcontinental railway, the Central Pacific, now part of the Southern Paritic lines. The gold spike driven at Promontory Part in Utah. when east and west sections met, is being exhibited in the Historical Caravan celebrat-

ing the State's Centernials

Thousands of Centennial visitors swarm through Sacramento now to visit near-by Mother Lode's historic diagonas (prac 561). One is Coloma, with a broase figure of Marshall pointing to where he found those paggets. Another is Placerville, formerly Hangtown, so mamed when three men were hanged on one Main Street oak,

A marker identifies the old libraksmith shop where John M. Stolebaker but it wheelbarrows and wagons. Later, with money earned here. he helped found the automobile family's fortune.

Mounta Sacramento enjoys tales of its past—when it can stop canning fruit, shipping livestock, or otherwise making money ong chough to listen.

But This "Huen" Could Hold More Water!

How nauch more this State can grow depet is on water. That bed droath caris in 1948 opened peoples' eyes to this grim fact.

From its own rains, snow, and wells California could enjoy vastly more water if it was better distributed in seasonal and geographic ways. All this has been told in earlier issues of the National Geographic.

Most of us have read, two, about man's incomparable irrigation leads here (page 508). and such hercadean jobs as turning the Colotailu River's water and power into southern California; or that glant undertaking by which the San Francisco-Oakland area brings water by lang cross-country aqueducts from the Mierca Nigymby.

Redistribution projects, diversion of water from water-surplus to water-short areas withit the State, such as the partially completed 440mile system from the upper Sarramenta River to the upper San Jouquin Valley, are annuag the most astounding feats in all hydraulic engineering history.

but how to get more water for all these invulving multions, the growing towns, and the rise of hundreds of new factories? How to stop so much valuable water from rushing out through the Golden Gate in flood times and hold it but the lab I for use when and where

needed?

Fensible plans of the U.S. Reclamation Hureau seem to hold partial answers. But to carry out such for g-range plans will take years and two or more billion dollars. Even then, if the State continues to grow as population at 1dents estimate, it will still be short of water.

Audacious, fautastic are some proposals for bringing more water late the State.

One plan says bring water from the Calumblu River, hundreds of miles to the porth; another says bring it from the Mississippi!

"Our biggest natural waterbale," others say "is the Pacific Octan aself. Let's and a way. to desalt it."

I asked the California Institute of Trebandogy at Pasadena about this. Its president,

* See "M. to Wafer for California's Great Content Valley," by Frederick Simpurb, Natureal Geographic Managawa, November, 1946.



Caldingia Makes Delivery; Arecuting Accepts a Claur Dingles Pessenger Plane

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A surely or the problem," he added, "shows int is a sequired to evaporate one trip of sta water i is, a lit that a required to list a ten of water to a be the of 147 miles.

Dessiting Ocean Water Now Too Coathy

"Present cost of Colorado River water delist of the Calling the San and the form those outs a se for pursoning see but. would at the lowest estimate run \$50 to \$100 per nere-loot; gatual treats, with a reception of the letterbook uses and building the district restitution to two or this imenthor that he

About the only way out, in so far as power recording to the second of the second way of using solar heat. Not lear power is ar in the time of an all products

Water? Yes, a sour pote in the Hern of

for Year of the Horasta a co muropian avalants he still pours! Its mora-- 1 4 [] '- e , ') [- , 'e, n'] ul off of the 100 areas 1 000 at 1, 15 ges \$5%. 566, 581, and 591). It has to, for men to ship out 10,000 000 crates of citros fruit in one sens n

And that might est westward tide of migration our land ever saw is still flowing. So many have gone from lows, settling around little amount of the first modern a that plant "I wa Sequett.

17 Lu- 11 - 2 17 , E 2 2 1 1 A 4 1 1 2 2 All-Year Club of Southern California began or keep records, says Director Don Thom. .. abortt 30,000,000 tourists baser come to be k and some to stay. They like what they see in the Born of Flenty,"

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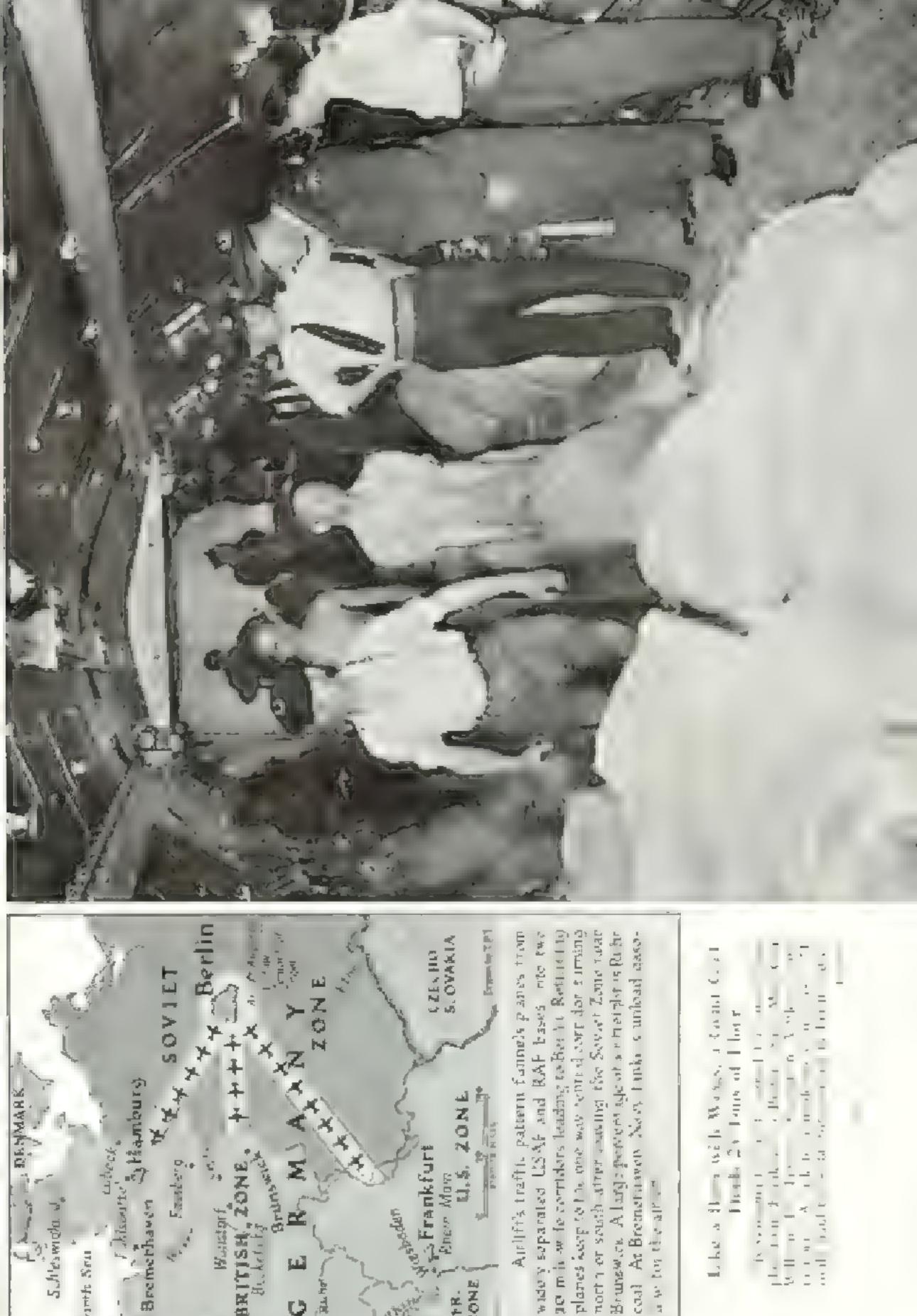
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Goggle Fishing in California Waters

By DAVID HELLYER

With Illustrations from Photographs by Lamar Roren

I shipped from the rect into deep, clear water off La Jolla for my first goggle-fishing adventure, my diving companion shouted a friently warning

"Prepare for a shock," he cautioned, swim-

ocean's hunards will give that a just "

My nose was tightly encased in the rul ber be using of an uniqualist face plate. I tried to labale before submerging. This created a strong sortion which pressed the mask against my cheekle ness, but gave me no air at all.

Breathe through your mouth," my col-

league advises.

Swimming breast stroke, I gangetly submerged my head until the cont water lapped my ears. Instinctive y, I kept my eyes shut. Half dreading what came next, I opened my eyes and swender of wonders! My gagglefishing friend was right—my first impalse was to public for share as fast as possible!

A Somerine Wonderland

Even thee, fresh from Wonderland, would have gasped at the landscape spread below me. Long, brown tentacles of kelp, waving weir liy in submarine currents, appeared to clutch at me. Leaguass danced on the ocean's thorr, curry grain of crystal sand, each little in mal and tish stood both coldly like brages in a stereoscope. First I was amazed, then containted, the spell pover has been broken.

Color abounds along these reefs. Incredibly orange garibalities, the goldfish of the sea, dart from rocky holes on the button. This inquisitive descriptionally will swim to wather actus letter had a goggler, his ormical face gaping into the desert's face plate. Perhaps the goggler appears as ridicultus to the gari-

buldi as vice versa

Acres of sea unthins carpet rocks and reefs their purple and red spines at still attention like hat mes in grant ma's pineusion. Sand collars dot the orean thor, partially barded and standing vertically like wheels from some abands and prairie to however.

Countless sea aremones blocket the rect works like beds of chry-anchemous, their laperage tentacles waving a fetal invitation to soull marine animals on which they feed Spirit reals duty in and out of rack crevices, and pink and white starfish cling to tracks like decorations on a Christmas tree.

Occasionally a diver discovers a group of

strange, conceshaped objects. Eke leather crakescrews four inches long, lying on the bottom. These are eggs of the unity bullbend shark.

The pools teem with interesting specimens Scalains, "little old men of the sea," He at

test on the lottom.

Title-peal blemies swim jerkily from rock to rock, looking for a fight, for this pagnacious, cellike little fish always has a chip on his scaly shoulder. Sea hares, fantastic, sluggish specimens which look like animated puridings, slither over the tocks. An occasional long-jawed goby swims by. This mudsinkerilke fish wall live out of water for a day or longer. If keps, a wered with damp seawerd. Fishermen toret them for hat.

Anchovies Flush Like Mercury

We were swimming in a parrow charmal walled in by reels, in water perhaps 15 feet teep. A school of anchories flamed by, their states sparkling in the morning sun. In tight formation, they cut through the blue water like on etrant river of mercury. Suddenly their ranks were shattered by a lightning quick flash of while.

"Halibut feeding," my friend called, as he took a deep breath to dose. Hown, down he swam, almost to the bettom of our private pool. Over a sandy patch in the weeds he poised his spear, then barged the five-tined

weapon into the sand.

A shoull it rested water maddled his spearbend, and when the sand settled I saw that he had transhared a beautiful Unidomla halibut, much prized by anglets and gugglers affice as table fare

this species, a member of the flounder family, is frequently taken by divers. One peoply speared at La Jaka weighed 30 pour is, though continuedal fisherates have taken specimens weighing up to 60 pounds Pacific hallbut may weigh 500 pounds.

My only equipment for this underwater adventure was a face plate and a part of swimming trunks. But my experienced companion were swim fins—black rubber "feet" somewhat suggestive of a duck's (page 625).

In allow no to utilize the transpidule driving power in our legs," he explained. "The human for is very inefficient in water to must its present in so small in propertien to the must be power of the legs. Westing fins, a good skin dever can travel 70 to 100 feet



If Fish Could Talk, They'd Say, "Give Juck Predenovich a Wide Barrly!"

Off for Jolla, this languaged black on basis or jewfish, was "ancaked out" he a tome of the gregor's per basis paddled a share deached the fab rowed and the fact of the first playing fish the control of the for playing fish

under water in half a minutel. And even a dule wearing them can number stance an Olympe champion."

These man who "live with fish" from a fost-at raing proup. Ten years ago the sport was virtually ananown, save to a few hater in it is a who made their own criple goggles and their in the law pears and explored the sard time. By 1949 over 8, 190 er thusiasts had joined the ranks in southern California alone with other groups forming on Gulf and Atlantic rousts and in a land water.

the manufacturer has shipped gradthen global the world, and during the war sent them to RAF points in haypt, to Pan American Actuarys combiners of the last beautist, and to goggle enthusiasts in the East Incies. I saw members of our named forces using California-made goggles on Waikiki ficach, Honolalu, and on Johnston, Kwarter Inductor, and Manus islands in the Partic.

Must experienced gogglers have the same

favorite fishing holes secret spots in performant where granddashly blusters he, or we missione or tish are especially large and promode it. A good skin diver can keep his family well fed on his submarine efforts, in ring depression times one goggler supported his tom by for two years as in fashion.

The Rotton Seratebers Club

becomed divers are the eight men consprising 5 of 100 m 5 and pre Bottom Scratchers Club. Fach is a veteran of several years underwater fishing; each has passed regord as tests. So difficult are these trials that only name men have qualified for mem tership in the 15-year history of the group?

As a starter, you must swim alone through the heavy surf, navigating your way over a treather its tref covered with more sharp coral and white with forming con-

Later y u most oive in 30 feet of water, bringing up three abalanc in me dive. If your



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"I'd Be out as Hoppy ' She Says, "If You Had Left That One in the Ocean"

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Bareltanded, He Makes a Seagaing Toughie Say "I ne e"

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they decided to take a stale at the jewish. Wally was to hit him on the right side, while I smacked him on the left," Jack told me. "We took deep breaths and dove. We had to swim further than we anticipated, and Wallet is of all his lift me is now in the left of the second of the s

saw them bend over at right angles.

"Mr. Jownsh saddroly remembered an appointment in deeper water and tore out of the artists of the artists of the remembered and appoint up a froth of sand and kelp an route. Our nices reposed to it the result was to a like the like a little and the fine at the dalant see hig bey any more that year."

At wars the tays discussed strate, your

the tipe print of the control of the cheep.

One countries was a reconstruct when we met 'junior, ist a little fellow may be a handred ounder. Through a nole in a rect we perred right into his under water nursery. All I could see was one of his big eyes—it looked like a flashlight! Just a little fellow?

Two Years of Effort

They experie ented with the idea of spear ing him through the window in the rock that don't work—the spear just bounced or his armedike scales

For two years the experimented to had taled in attempts of another met of the most lish. Finally they built a slip-point spear, powered with a high-tension spring, and prepared for the showdown.

In September, 1945, Prodanovich was conlug the waters off lar-Julia on his peadable.

brate. In the side lay his new spear, not yet tried in bath. Sea that the speak, he said dealy caught his breath. It is not set swam into view below blan.

With his spear cooked for an art he down.
It this insert is considered, his considered is
surfaced, and remembed his puddled and a
the field of from board to speakhead whipped
the water to from.

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beld take off for Hind-

I du again!"

Finally the base fish was beached. It weighed in at 207 pounds. The catch caused excitement among local marine had depists, who identified a 25 the first broomstated groups planes in these been taken in Caldoon a waters

Since that it is a revich is a second time. Indicate a second time of the core, though porter of the lated his first

His last catch prosided a dramatic teverse twist to the oil big one that got away" story. Off La folla he spotted a deep-sea behemoth loling under a weedcovered shelf.

Another Big One

Nipping carefully, he hove his powerful, spring-driven spear bend into the creature. The line sang and aipped through the water is a list that the base was taken. It the lass was taken to his line was a line to be for any line. And a single proved; the lare some

parted probably out neatly by a piece of coral badly the champ on spear fisherman termed to shore, with nothing but a station are to testify to the big one that got successive.

the who laught last somethers to and the time the month later. The month later to another the somether the somether the somether the solution the later than the solution the forest of brown was a quickly be drove home his spear, aiming hrough the kelp at the fish's concealed but you here after with Production in the victor.

As he dragged the 112-pound gulf grouper onto the beach, Produnovich gasped with surprise. Two spear points were embedded



Univ Another Gunarfish Could Love Such a frace

to be find the control batteries, the about the terror aspect the grade to the control to the find that the powerful too.

in the giant's bank. From one I mg the remains of the spear he had I st the month before, a remnant bent and twent I be the entries of the groups to dishedge the barb. Produnced h had the last bugh with his "bus one that got away"—almost thage to.

Many jewish, or black sea bass, have been caught by gogglers and hook-and-line sports men in the area (page 616). An inventory of the stomach of one specimen recently caugh revealed five ushbooks, several feet of line leaders and a six-omice sinker

Abiline a mollosk much admired for its next, most be liken by surprise, for once warned of danger it clamps itself family to the rack and is very difficult to pry look (page 031). One diver nearly drowned when



Affect in a R floor like Raft, Sac Scars the Pacitic Depths for R excel game Mathers and the control of the sach and the control of the contr

on "ab" clamped down on his prying iron, which the goeske had carelessly tied to have strict with a leather though "I hereafter, he followed the usual custom of fastening the tren bosely to his wrist with a strip of junerable tobling

Big Labsters Are Pretected

Krowing that about we clamp down when toucher, one wages a down plant a track or is fellow googless. For me a good bed of the molasks, he tapped each abulone with his from. When his companions tried to pry them hose they caulout dislodge a single in the practical plant are returned to rean a rich harves.

Gogglers find spat lateral markets are markets are markets beside those brought in by the Bottom Scratchers. One member tells a tale which would sound "fishe" in there had not verified it

this old grandd... sak so long I was afmill to tackle him and the divine. "I stretched out my arms to measure him a he law in a racke on the rect, and I could just reach sub arms which mongh to reasure his length?"

to the first of the first to the taken of the first to th

Many hish are word. An example is the "burnes!" bullhead shark (page 627)

I spotted one of these toply killows under treef," reported Lamar Boren, one of the Bottom Scratchers. "All frould see was be toll mouth and two long, white horns I shouted for Jack, who was hunting near by He dove and came up laughing with the report that it was nothing but a suffice, shock

Thek has always wanted to catch one with his bare bands. So he harded me his spear and there, sufficing a minute later with the name brash a mound in his hands. He was belief it by the tail and one Hipper (page 130). We put a stack in his month when we got him ashore, and you could hear him erunch down on it with those string teeth

10 feet away!"

Money eels are vicitus, too. Specimens up to six feet long have been taken. These statement fortures are especially fond of abalancement, and often mistake the hand of a diver for their favorite food. One gaugler had just pried an abalance boson when an rel darted from its crevice and snatched the meat right out of his band, leaving the daver with an apply shall:

their will follow you with their teeth bared if you threaten them," one diver disclosed. "We always check carefully when diving far abalone. Some day one of these submarine bulldoes may strike and clamp onto an arm, hand, or leg, and we'll have to come ashore

to pry him loose!"

Other dangers link in the underwater world. Contrary to popular action, however, octopies, starks, and rays are not considered

perils by divers in these wa era.

"Our worst enemy is careless ess or misjudgment," explained one veteran, "Hunting abalons or histor, we sometimes dive under ledges or into crevaces. A sining current could catch a man in such a position and keep hap there until he drowned."

I be aviators flying in tarefied air, divers must bewore that they no not run out of or the Orne a pair of gargers were during an kelp bods, in search of grouper. As one tomary, one man mounted watch on the paddleboard while his companion days (629).

Submerged Almost Four Minutes

'My friend had been down nearly four minutes whose I sense I danger," related the watcher. "Most of us can manage a two-minute dive, but even the best of us is no four-minute man. I was just getting ready to go down after him when I saw him thating to the sarface, face down and arms out-stretched

Somehow I managed to get my friend's leady across the paddleboard. By bearing him mentilessly on the back, I finally got him to take a neep breath of a r. He gasped and gulpeo for several minutes before regaining

The untertunate goggler afterward related his recollection of the incident.

I had spotted a good fish and fellowed blut into the weeds. I knew my coyagen was retning low, but thought I had a few seconds in te to go. But I didn't reckon with the fact but 25 feet of water Lie between me at a the surface. On the way up I such only blacked out. It was very peaceful."

Most googlers hear the scars of emounters with coral. Exequently a diver will be swept meaned coralline reets by a strong wave or current, and emerge from the engagement badly cut and blee ting.

Encounters with sea lions are not abcoma. On your continue by long to the from a real when something bit him in the

and,

"The pain was so terrific it bent me dot ble," he recounted. "I the ght a me ray cell has but me. But my eventy soon made another pass at me, and I saw then It was a large sea, probably a mother with young. It took several stitches to close the wound."

Sometimes big scals just feel playful!

Swimming with a Sea-

the afternoon, after fishing all day. I decided to take a swim, for the exercise," related one diver "I dove to without any weapons, wearing only for plate and fins I submerged several times for the scenery, and cach time I surfaced I noticed a crowd had gathered on the breakwater. This was not to usual, so I kept on diving."

What he did not know was that a big seal apported beside him, submerging and surfacing

with him like a shulyw.

"t mady I spotted the monster streaking along under me like a torpedo. I decided this was no place for me and headed for share, with Mr. Seal swimming alongside, Then he dove, and surfaced right in front of me, between me and substitute, the stopped me co 1, his heady eyed face so close to mine I could count his whiskers'

"I lived and died (ity times during the next (ex seconds, re needla ring what had happened to a tother goggler in similar executivations in the face and of sheer desperation, he took off."

These underwater sports are make important contributions to marine biology and frequently contribute specimens of interest to experts at actipus Institution of Oceanogra-

phy, located at La Jolla

According to the textbooks, certain fish grow to certain maximum lengths and weights," one gragier observed. 'We have helped correct many of these ideas. For example, one manual says sheepshead attain a maximum weight of 25 pounds. I personally speared our weighing 27 pounds, and have seen many larger speadmens. And the texts tell us that moray eals grow to five fort. We know of a gogg er who brought in a six-footer measuring seven harbes in a another?

to uglers have learned to relate tertain fish-

to specific types of Lottom, much as hunters seek their quarry is definite while of cover,

 I farmia halibat, for reample, most tre-Liently are tilken in sandy parches surrounded to the contract of the contrac this is ke bo to us where pleasy of crevices and holes provide protection,

Labeters Hide in Crevices

Lubsters seldo a venture into the open, and ate fourt only where cracks and previous Juraish safe biding places. They do come out at night, however, to provi the bott mi for food, Black sea bass, or jewfish, he in kelp beas, while croskers often are found reding in a few inches of surf, right on swre. Conne Jish Sought by deep-sen anglers the parraguda, kenno tuna yellowiail, and other rod-and-reel (avorites-sel for ranging out of deep water, are not often taken by gogglers.

Meranse of their delicious flayer, California. galibut are prized catches, and divers have a traditable a present the reverse Hard to spot as it has on sandy bottom, the California bidibut has a chameleardike enpacity for changing order to suit his surroundings. On clean sand he adopts a sandy hire; mar pocks his coloring becomes mattled. But his undersafe always is snow white. Threfeimes the fish buries itself competity in the sand and can be detected only by its outline.

Not gifted with the mkish lines of some of his underwater brethren, the habbut appears sluggish, an appearance which proces very neceptive. Actually this fish is lightningquick, sapachle of flashing through the water with incredible rapidity when feeding or frightened

Several kinds of rays are common along the California coast. Almy of these biological nightmanes have saw to shed barbs in their tale a fort which an occasional buther diso vers to his misfortune. Stepped on, such a ray Instantly whips its tail upward burying its tiny serrated sword in calf or ankle,

Person glan is exist in many rays and, like The earth rand faitheanake, and trays are versionalis. While the sting is very painful and may be dangerous unless cared for promptly and properly, it is tarely lethal. Cases of death from such practures have

been recentled, however,

Rays thrive on sandy bottoms. On one designing a lyenture I swam over a large satisfy area in eight fact of water. Hack, dime-sized spots covered the small. Curicus, I prodded one with my spear. A sting tay shork off its I broket of sand and swam away. There were literally handreds of such spots w thin an acre or two of sandy bottom, and

each marked the bed of a sleeping ray? Once I noted a curious diamond shaped outline in the sand, measuring nearly two feet

across. Prying with my speat, I dislauged a sluppish guitantsh, which reluctantly awant off.

Gogglers frequently find "treasure" in their underwater adventures. Packle boxes, rods and mels, all sizes of anchors, rings, bracelets and other jewelry, knives, and tools are among

their booty.

I ence found a revolver on a reef. While swimming at Walkiki Bouth, I spotted a ocactitul ring sparkling in the coral. Retrieving t. I found it to be a class ring of a famous eastern. aca lemy. I wrote the acade, sy, disclosing the in tials and year engraved on the ring, and was given the name of its owner. The ring way then sent from Honoluly to Rhode Island, and another friendship was born!

Datring the war special teams of gogglers were formed by the Navy to scout reefs and beaches for anti-invasion obstacles. The Underwater Demalitien Teams, reunited in part from peacetime sportsmen, are credited with saving the lives of thousands of Allied soldiers and sailors by tenaving harriers in

the face of heavy eremy fire.

UDT Performs Underwater Miracles

Units operating off Guara destroyed more than 1,000 Lupe obstacles, making tracts landings possible. Frequently these divers, equipped only with face plates, fins, and steel courage, worked right in the wake of Japdivers who were installing obstacles. When our boys had set their high-explosive charges, they retired to safety while time fases blew obstacles and Japa juto oldjyi m.

1 IIII opens performed uncerwater miracles on Omeha Beach in the Normandy campaign, suffering heavy casualties in the process, Their misslant to slash sixteen 50-yard gaps. through three principal lines of obstacles Working under revastating machine-gun and sulper fire, they supped over 55 percent of the German-placed traps on the beach within

two days.

Until recently it was illegal to spenr game fish in California's ocean waters—and it at I is, for everyone except a goggler! In tecognition of this new sport, and in tribute to tindivers who put themselves on a par with their prey, the Cabi unia legislature passed an amendment to the fish and game code making the goggler an exception to the spear-fishing tale.

"Anyone who wants a fish budly conach to bant him out in his own element deserves. to spear han," one legislator observed in voting **25 C.



With Heavy Rarbus Phys. Godglers & ck. Themselves Down to Frenc Deepsea Phinter, Gordales

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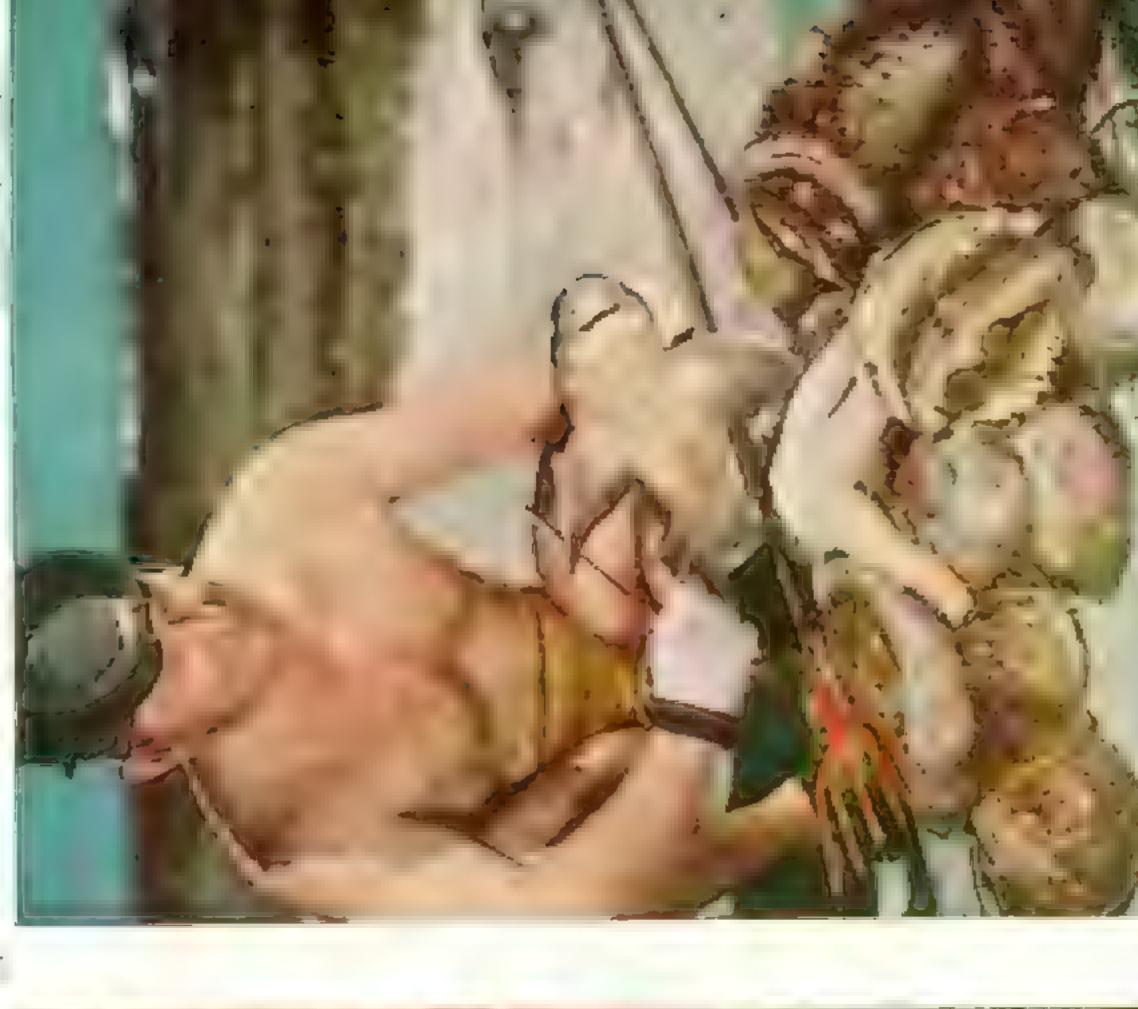


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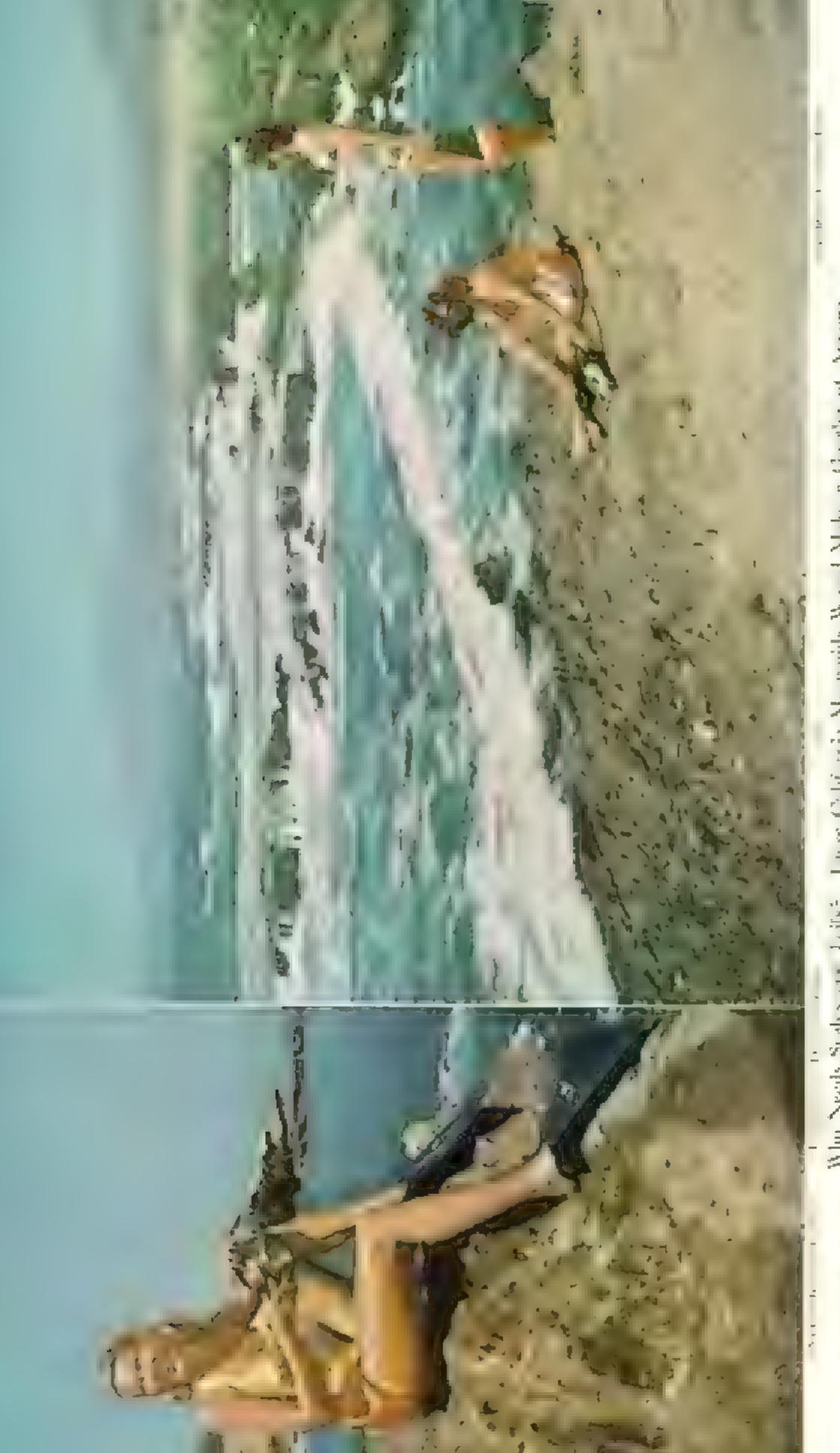
W. J. Charles Specially, These Underwater Henders Switten Mass.

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A A Graggier Drove In the Rig One That Go Awar - Morost!

Marchael Constant Con

v "Hey, Ma, Come Lock at This Big Bug Pop Caug et?"



Flags of the Americas

BY ELIZABETH W. KING

Paintings by Carlotta Gouzales Lakey, Irvin L. Illeman, and Betty Harnes Baker

THEN American troops stormed ashore in Africa, a force attacking toward First Lyangey, Morocco, fodas, its advance blocked by the citadel near Melidia.

Fresh supplies of gasoline and explosives were needed, and soon after they were landed the fort fell. Then many a G1 was my-tified to see a strange flag ruleed over the first—a blue and white flag with over stars in the center

How and why did it get there? The answer is elequent of the unsuity deeds perfurned under all-the-little-known three of our sister republics of the Western Hemisphere.

Flag Honors a "Roman Canale" Ship

Carefully prepared invasion plans had called for a vessel with draft similar enough to navigate the channel of the Sebou River up to Port Lyautey.

The little Honduran (reighter S. S. Contrasa was under contract to the United States Maritine Commission and was chosen for the menyal be job.

Delayed in preparing for the voyage, the Contests passed the convoy and saled almost across the U-layet-infested Atlantic

When the ship caught up with the convey off the cuast of Mrica, her deadly high-explosive cargo led Vice Adm. Henry K. Hewitt to call her a "Roman candle."

Under enemy fire the former fruit heat landed gasoline and munitions for the attack on the cltadel. When it fell, the officer who communicated the actack asked the captain of the Contesta for the ship's flag. Then, in hours of the little craft, he ordered it raised above the tort—the avestarred blue and white Merchant Flag of Houder's spage 654).

Not starty North Americans could have identified that this was back in 1942—ror the green, vellow, and blue hanner of Larage a troops who fought in Italy in World War ()

Yet the National Plag of Brazil, with its "Order and Progress" motto and the stars of the Southern Cross (page 047), because the thirs that from a New World ration to be those of the United States and Canada,

To bein acquaint its worsd-wide membership with the flags of the 21 American Republics, the National Geographic bodicty presents the accompanying eight pages of color plates con-

taining accurate paintings, by its own stail artists, of 172 chilerent flags and devices.

This marks the beginning of a series of articles in which it is planned to present the flags of the world in color. The ambitious project has been undertaken because the famous flag numbers of the National Geographic Magazine (October, 1917 and September, 1934) are out of print and because of the many changes caused by war and time.

Hags of Canada and the presessions of Great Britain, brance, and the Netherlands in the Americas will be included with those of their parent nations as articles on the flags of the other continents are presented from time to time.

A than, says the dictionary, is "a light, flexible thath... beating a device or devices..." During the greatest of world wars even the most unsentinental learned there is more to a flag than thoth and other. One might as well try to define the soul by telling what it is made of. Like the Cross to a Christian, ake a ring to a brice, the flag of one's country stands as a symbol of something too deep for words.

Symbol of Corregidor

On the cold dark floor of a Japanese prison in the Philippines, a seriously ill American general casted a brother of a rand with rectaprecaution of secreey pare I have tail of a small bit of rest cloth. It was a piece of the Store and Stripes

When Catregislar fell, Brig, Gen, Paul D. Bunker, then a colonel, had been given the painful daty of handing down the flag of the United States and huming it to keep it from falling into enemy hands. He saved one small piece from the flames and sewed it under a patch on his shirt. Then came the terrinle orderal of a Japanese "victory parade" and trison.

horesoung his death. General Bunker charged his fe low-prisoner, Col. Delicet Ausmus, to deliver the bit of precutts bunting to the Secretary of War. The ball which he kept was pre-unally still hidden on his person when he vie Hater in a prison on Formosa.

Through the years of the island-to-island fight toward victory over the Japanese, Colosed Acsmis hit the remnant from his capture by keepites it sawed in his shirt cull. Eventually the day came when General Douglas



A ling is bug is a Building for Flies Over George Washington Bridge for the angle of the control of the control

Mar Arthur stood again at Larrer of a spell and there has been bloomed to be a There your prints beauty be out to be no era let no enemay part liquid the constraint

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"Distress Saturd" Breaks the fee-

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"Descript Persons," as on the Har. Presses in a Brazilian Separa

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different, vet ad an or he freedom they symbolic the profession are relatively new a legion of the latter for the latter for larger and larger and

I all the all the Stars and Stripes, prein a little Continental Congress on June where States be 13 stripes alternate red and whate, that the Union be 13 stars white in a little lift in a section of the lift of

Washington's War-long Fight for Flags

When the property price the new legand, and the relation that he had been a second to the land property of the second Research the British warship Drake 1.1.1.2.18.

the correspondence between General Washington and the Loard of War, it appears that the infant nation planned to follow the mother

country's example and use a different desamfor Army and Navy.

Amusing now but no joke to General Wash it for were but a fast through the Reset of the Reset of

Some time months after Load and had been defeated at Yorktown when he Kachiner to be a much of each work term will Washington was stall teps of the latter to be becretary of Was lines had be to be becretary of Was lines had be at Newhorth, New York in we say York 2, 252

plane, as well as the Appearance of the 200 per but they should be furnished with Colors, I could wish they might be forwarded they as possible, for I am informed they are december at least

alm becteller in a man a taker regrest,



Gleeful Little Aberigines Surround a Far-traveled Flat

The the National County of the County of the County of the Salar of th

nut in order spring of the following year, and have caused one real own around Warrenton's headquarters. To a certain columns the general wrate, an March 10, 17.

Come a Chi a Week of two and testeral of the Sector of War, respectly the Standards for the Sector. The following reply has been made

the Standard are such, Head, or the O.A. or of their and have been there for word. The Continuous at Charles are year badden as a Market Nather

ters. Maria 75 to be gooded this product and the control of the state of the control of the cont

Many different flags. In at least two cases they devises their own versions of the Stars

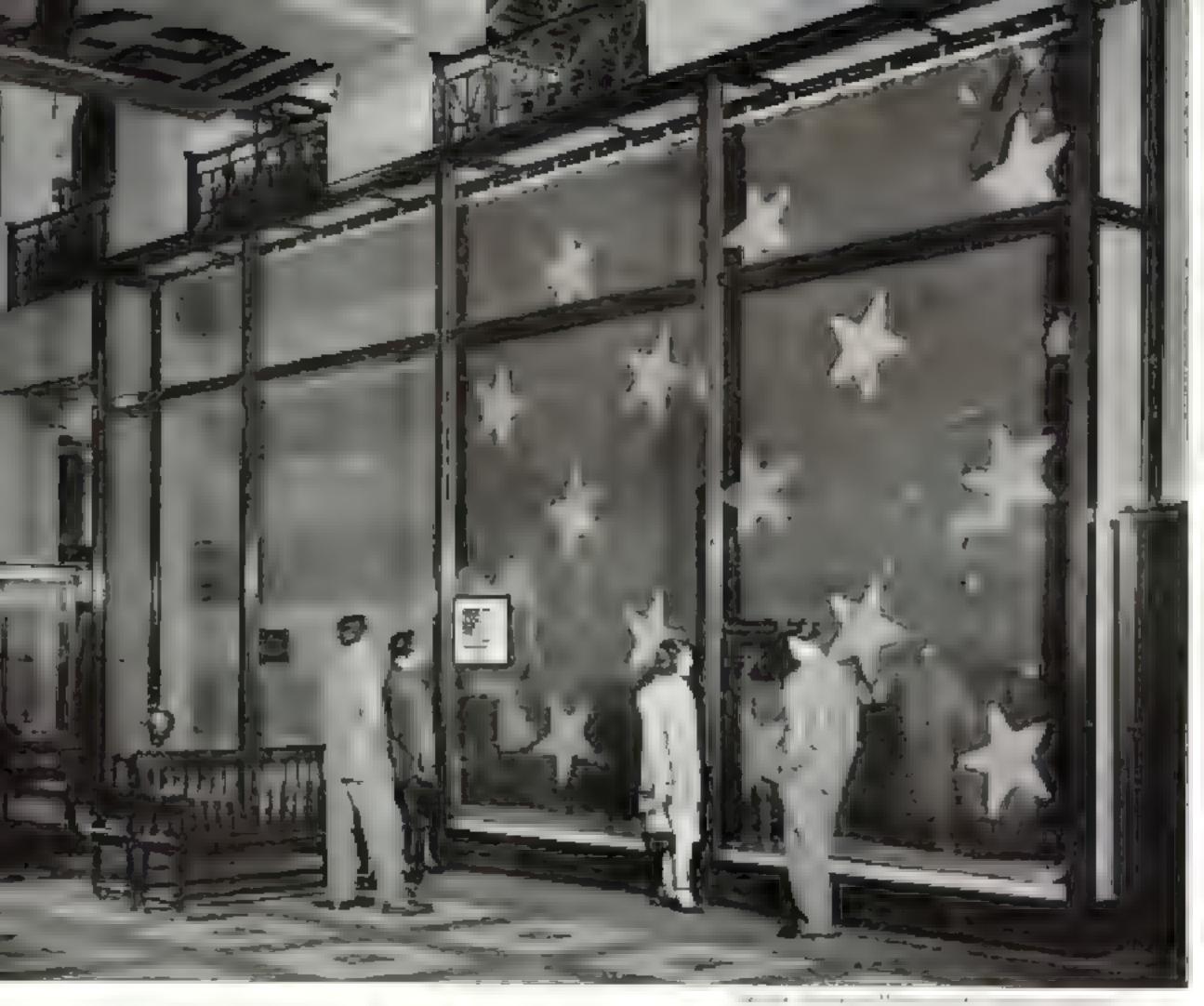
and Stripes. Such a flag appears to have conflown in the Battle of Guilford Courts truse. North Catalina, on Match .5, 1781, and an may have been used in the Battle of Cowpens. South Carolina two months earlier.

Place Restade to Show Late Changes

Besides the national that of the United States, the tlags of its major officials and agenticles and if the armed services are plenters at the same of the page that they

These relies to the most up-to-date. To all the most in the sample, actable be protes were successed page of their toler tendents of the tensor and the sample of the States of the States of the sample designs of Air Force and Army flags.

to he mater prepried and remarked or represented by a flag supplied detailed of the information.



"Broad Stripes and Bright Stars" of This Famous Fing Still Thrill Americans

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In the Lage of the product design, the State and State of the organization of the Francisco Communication of the Lagrangian of the Lagrang

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Six Other Red-white-blue Flags

Next the Appendix Flags of Latin Amore ed. which is a library lake one own—hose of Chih wall kent from the Parish and the latin and Parish and the latin and

Acte in a flag in a set with a set of the se

Contract to bear May a manufactor

day dawned rainy and cold, but while crowds in the plaza of Buenos Aires were demanding nesignation of the Spanish vicerty the sunbucke through the abouts and was halled as a symbol of success (pages 647-8).

tragulay, which wou hadependence from tragenting, also uses the "Sun of May," and its flag is thus and white (pages 656-7).

Paraguayans salute a first which bears one levice on the front and another on the back (pages 554, 656-7).

In livia's red, yellow, and green, symbolizing animal, mineral, and vegetable, emphasize the importance of its animal life—specifically the alpaca—its wealth in tin and other metals, and the produce of its fields (pages 647-8).

The blue and white in the device on Brazil's green and yellow hunner came originally from the flag of the Cortaguese parent limit, the stars from Southern Blendsphete skies as seen from the magazily beautiful capital, Rus de Janeiro (pages 647-8).

Chile's red, white, and blue flug has two stepes and a single star (pages 647-8 650).

Colombia, Ecuador, and Venezuela—neighbors in mithern South America—al. get the yellow, blue, and red of their rings from the hanner home by General Francisco Miranda, precursor of the revolution which led to Independence from Spain (pages 650-3, 656-7).

"This day the Columbian colours were displayed on board for the first time," wrote James Baggs, on American officer with General Varanda on an III fated especiation to free Verezuela in 1806.

"It's easien is formed of the three primary colories with a predominate in the rainbow. We made a fete on the occasion—a gun was fired and toosts were drunk to the auspices of a standard which is expected to wave to the triumph of freedom and humanity in a country oppressed."

Later the same colors were used in the flag of General Simon Bosivar's extensive Republic of Colombia, which subsequently broke uparts Colombia, Eccador, and Venezuela.

Blue and white in all the flags of Central American countries except Fanama stand as a reminder that all of these nations—Costa Rim, El Salvador, Gusternola, Hondoras, and Nicaragua: once formed the United Proxinces of Central America under a blue-white-blue-striped dag.

In the coat of arms on the Nicaraguan flag appears a restury-old symbol of Central America sa series of volcanoes (page 654). Surprisingly, this was once used as an argument for the building of the ship canal across l'anuma instea I of Nicaragua.

In 1904, when rivary between the Nicata-

est, Philippe Bunan-Varilla, a French engineer who had worked on the Panance Canal when the French were trying to buint it in the 1880's, published a pamphlet in which he emphasized the danger of possible volcanic cruptions on a Nicaraguan canal. He wrote:

"Young nations like to put on their coats of arms what best symbolizes their moral domain or tharacterizes their soil. What have the Nicaraguans chosen to characterize their country on their coat of arms, on their postage states." In least to

Congress was circularized with B mau-Varilla's pamphlet, and its inducate, while not decisive, was admittedly effective. Although official studies showed that the charger of volume etuptions in Nicaragua was preatly exaggerated, the "big ditch" was constructed across Panama.

Panama's cout of arms shows the two oceans it united "Inc. the Benefit of the World" (pages 454-5).

Cuba's Flux First Flew in New York

The flig of Cuba, strangely enough, waved over New York City before it was fligs over Caban will.

Narciso López, Venezuelan-born adopted son of Cuba, was forced to thee to the United States in 1848 for engaging in an attempte, reacht against the Spanish Government. At his request the design for the flag was drawn by Miguel Teurbe Tolon, Cuban poet, in a New York rooming house in 1849 (pages 650), 651).

Tokin's wife Emilia made the flag which lew for the first time on May 11, 1850, from the top floor of the New York Sun building. López, in his revolutionary expedition, took the new design to Cuba and flew it at Cardenas on May 19, 1850. The dag was used during the last War of Independence, which began in 1895. But half a century intervenent terment the making of the flag and the day when it flew at we a free t abo.

blue and red in the thig of Haiti represent he begro and Mulatto people. The neighboring Don't ican Republic has used the same colors, plus white (pages 650-1)

Birds played an important part in the symbolism of three flags—those of Guatemala, Mexico, and frem (pages 652-7). According to tradition, both timetemala's quetzni and Mexico's eagle led the people to the lands they occupy today. Mexico's harpy eagle—'wir ged wolf' of the Aztecs—now appears devouring the serpent of oppression. Inspiration for the ted and white flag of Feru came from a flock of sed and white bods, presumably flamingles.

The Plag of the United States and the Jack

Page 541

LITHOUGH the Colonies became the United All States on July 4, 1776, nothing was dire about a flux and June 14, 1777, when Congress

xupter) a tag resolution i page 636),

In the Revelution the Stury and Stripes was carried officially in battle only by the Navy. It was flown early over permatent military estal lishrochts, but it was not mesaded in Army Regulations as a garrison that until 1834. The same year at was presented for Articlery, for the Infantry .n. 1841, and for Cavalry in 1805. The Madite Curps prescribed by use in 1876,

The designer of the Stars and Stripes is ananown; present consensus is that Francis Hopkenson at least made the drawing for the flag.

Early thigh had the stars arranged in circles, circus around a center stat, quintuntes, ovais.

utral stars, etc.

After the admission of Vermont and Kentucky to the Union the thir was changed from 13 stripes and 13 stors to 15 strapes and 15 stars by the law of 1794, effective on May 1, 1795. In 1818 a thand that law returned the design to the original If stopes and provided for a union with 20 stors, to which a new max would be paided upon the admission of every new State.

The law did not specify aromgement of stars or proportions of the thig thregularities in the Lig prompted President Talt in 1912 to prescribe its proposions for governmental are and permitted special sizes for the Army and Navy.

In relearing to the time, all the gets of Congress have called in the "Fair of the United States" miver the "Urited Sajtes (Fig" of the "American

Hag." First to call it "Old Glary," probably to early as 1824, was William Larlvet, a sea reptain aving in Nushville, Tennessee, when Phion forces took the city in 1862.

curret, and proces for the Flag of the Luited States, together with proportions or sizes, are

The National Flag for Government buddings

I fo | 9

The & stryn, the National Plag in Nevy isage, and for austips, ships, and bouts of the Army, Air borce, and Marine Corps; I to 10

The National Color used by vismous ted muts. for Army and Marine Corps, 4 feet 4 inches by 5 feet 6 inches; for Navy, 5 feet 1% inches by 6 feet 5 inches. The Army uses fringe

The National Standard used by Army and Mir. force for mounted methanized and montaced

units: 3 feet by 4 feet, plus frome

Designs of Deganizational Colors and Standards diner from the National Flag. These are desembed with the services to which they belong

For the Mercanne Mag no size is established

since it is not for the erament use,

Manufacturers make the Flag of the United States in a variety of proportions, for an official

sizes are fixed for poblovernmental Page.

The union of the Plus of the United States has served as the country's Jack since 1777. The term 'Union Jack" is frequently used but many the nathborities feel that it is undesirable because the Union Flag of Great Britain was unofficially cailed the "Laron Jack" before the United States was established. While the Navy regards the Jack as a flag for Covernment reseas, some men hant ships also use it (page 658).

Flags of the President, the Vice President, and Fleads of Executive Departments of the United States

Pages 641 and 643

THE PRESIDENT of the Lanted States, Vice President, and Hearts of Executive Departments al uso personal or dissinguishing flags.

nour stars represent divilian cank as Hears of Executive Departments Thus the Secretary of the Army with a four-star flug presides over fivestar generats, whose rank is pull any

Ten of the 12 secretarial flags bear reproduc-

tairs or a laptations of official scale.

The President of the United States. The first special use of a flag for the President was in 1888. The current design, adopted in 1945, replaced the design of 1916. The 1916 flag showed the Presicent's seed with a white marin each corner. The that was or hickert because the eagle faced smarter, I'm is, to its own lett. The new day not only changes the capte's head to deater but also encircles it with 4d white slass

The Lice President of the United States. A special design for the Vice President was proadopted until 1936, when he was given a flacake the President's with colors reversed. With the adoption in 1945 of a new design for the

freezeet a change for the the President was also required. A design was approved on Novemfor 10. 1944, but a drawing of the flag was and available uptil so late that it was necessary to show it on the second plate. As districted, page 643, the disagn is a "color" (that is, for communic) use cand therefore has a blue france, when week as a "fing" it would not have image.

Secretary of Agriculture Adopted in 1941, the that ruttles the Departmental wal; 1862 is the date of establishment of the Department; 1880. he date of its elevation to executive rank

Secretary of the Art Force. This flag, which carries the Air Enroy Headquarters star on gold

pi of wags, was approved in 1647.

Secretary of the Army Taken over when the Sometary of War became the Secretary of the Army, his flag carries the United States coat of arms. The Under and Assistant Secretaries use the same shaling reversing color background

* Detailed factories of the scale of Government they I to lits appear so "Seals of Our Notion, States, and Territories," by Physicili W Kang, Narmyas, Genoratine Manager, July, 1946.



Flaquef the President and Heads of Executive Departments of the Linited State.

tary of Commerce and Labor was authorized in 1910. When a separate Department of Labor was counted in 1915 a flag with the new Commerce seal was adopted. The Assistant Serrelary has the same design with culture reversed.

Secretary of Discourse. Approved in 1947, the ting has a design from the Departmental seal. The across represent Air Force, Army, and Navy.

Departments.

Secretary of the Interior. Replacing the original of 1917, this flag was intopted in 1934. Seven stars represented the principal activities of the Department when the flag was chosen. A white that will be stars was authorized for the Unfer Secretary in 1943. Hoth carry the Departmental seal in proper colors (, age 638).

Attorney theread. Ash pied in 1957, this flag carries the scal of the Department of Justice. The motto may be transmission as "Who procedures in behalf of the Lindy Justice," or "He who seeks

justice for the people."

Secretary of Labor First used in 19.4, this is considered the "Department Flug," called

then the becretary's personal flag. The state represented Departmental bareaus at the time the flag was established. The design is the seal

Secretary of the Nary. This design was adopted in 1st 6. High for the Under Secretary, the Assistant Secretary, and the Assistant Secretary of the Navy for Air, have the same design in the fallowing color combinations: white design on red field, the on white, and red on white.

Postmuster General. The critical Lesian of this slog, adopted in 1921, is from the Post Office stall.

which shows a galloping post horse,

Secretary of State. Authorized in 1433, this lig replaced the 1430 design. The cost of arms of the United States as it appears in this flag has a white not the usual buil, background. The Uniter Secretary's flag has later stars on a white tield one the arms on a base does

only by her makes it impossible to date this this but it was used as early as 1914. The Under Secretary has the design in white on a red field; I e Assistant Secretary blue on white. The design

is from the Departmental scal.

Flags of the United States Armed Forces and Concernment Agencies, Pages 643 and 645

Plage of the United States Air Force, Page 643

THE DEFAREMENT of the Mir Force was agented in July, 1947. They were designed for the Secretary of the Department (page 641) and for the Chief of Stuff and General Officers (they they used by the Air horse when it was part of the Army were retained. These have dramatine-blue fields, with gold more use france when funge is Indicated.

The Chief of Stepl's design is based on the Ast Force seal. Constal Officers Magainst the Ast Printe fillabors of white stars on a borranta. Une;

trimbe is gold (granew).

Command Plage carry a designation, such as

Training Command, Mustra 🕔

through Standard. The Air Force Group is on a staff sevel comparable to an Army regiment which is the lowest rebelop having a standard. The skield of arms on the breast of the eagle and the creek over its head reveal the unit's lactory. I till becommissance Group is idestrated.

Califor illustrated is be-se design to which used designations (mumbers or let ease may be added.

Plags of the United States Army, Page 643.

Army Regulations provide for hundreds of tlags, but the group shows is representative of the various types t

The blag of the United States used by dismounted tought is called the National Color; by mounted troops, the National Standard (page 1410).

Lie Army uses Distinguishing Plags for Indi-

the Secretary of the Army, etc. (page 641). It also has Postmentshing States for the Chief of Staff and General Officers. Formerly, different designs were presented for Lane and Staff Generals. Now my one pattern is used—a red field with the appropriate number of white stars to indicate true. Five-star generals have design shown; others have stars in hor mutal line. Two exceptions are made to the rule: General Officers of the Medical Corps use stars on a maroon background and the General Officers of the Chaptalias Corps use stars on a pumple background. All of these betteral Officer flags are salk Standards and have a Officer flags are salk Standards and have a Officer flags are salk Standards and have

Distance delays are also used to identity headquarters of larger bodies which do not have an Organizational Color or Standard; Army

ten and Larges Headquarters shown

Instructive denies for the Adjustant General of a base in the National Gazed were a liquid

an of Modern to

In a Idition to Na on a Colors and Standards the Army uses Organizational Chapter and Standards to identify the headquesters of regiments and have ions. These Colors and burn lards have the same sizes as National Cours and Standards, page 640. The Color shown is for the 140th Interity Regiment and the Standard for the 3rd Armored Field Artiflery Battalian. The unit a

* Information in this section was supplied by delect D. Ew a. Heathle Consultant, Department of the Art Poper

t Information in this section was populed by Arthur E. In Suo, Chief, Herd is Beauth, Miliary Photoics, Projector, Cance of the Quartermaster General, Esquarite, at of the Arms.



Flags of the Umited States Government Agencies
FLAGS OF THE AMER CAS

blesory is becald on by posterived on the shield of the sagin and by the open over the eagle's head. The organization's motto is inscribed on the sorall above and in designation on the sorali below the eagle

Two special lars for dist lay at divine orviers are previded. The Christian has a Litin excess the Jesush carries the six pointed Star of David and a cablet bearing Roman numerous represent-

ing the Ten Commandments.

I mands are displayed from crooks of the manner with conta of arms use the deal from the arms on the T. bard. Reguments with ladges use that design. The example is in the marner and white of the Medical Corps.

the Bendjateters, C. S. Military Academic, was given a Distinguishing Flag in 1930. The

in 1875, was restrawn in 1983.

The hed Cross blue marks neutral ground for those malions substribing to the Genera Convention. The Leteranory blue marks the way to reterinary hospitals during combat.

Condons are smallow-tailed that used to identify economies, troops, and betterness, example the state of the

Army Corps.

The Commission Pennant is used on Army vessels in commission. The Mintag Pennant is used to mark parade ground lands. The Franz perfection Corps has its own the

Flags of United States Government Agencies, Page 643

Figure the use of special flags.

The Yacat Ensign is placed in this group no rely for convenience, since it is for use by private

yactil lowners.

Linters States Court and Georgetic States (Department of Committees. Established as the Coast Survey in 1867, this service charts our coasts and arreads. The triangle symbolic s the basic surveys conducted by the Bureon, the two stars, the Director's rack of Kear Admital

I mited States harrion between the partment of States. Authorized by the Navy in 1900, the Consider and adopted by the Navy in 1900, the Consider Boot Flag is still recognized for use by consider obscers using small boots in foreign barbors, but accounts for its use are care. In 1900 the Jack 1 a 6414 was authorized for use with the blag. In 1915 States on cars of the first of Missiones to her diplomatic and consider officers use the satisfactor blag in place of the Jack.

I measury to This flag was authorized in 1295, top the Revenue Custer Service. La sixteen stripes represent States its the Union in 1799. From 1874 to 1910 the flag was need on all the tem booses. Since 1910 it has belonged to Custern Service solopied a new this by administration that he argument distinctive emblem (see § 1951 to the argument to).

I mited States hash and alabaje Service (De-

partment of the Interior). Designed by John R Study of the Service's Alaska Fisheries Davisio and approved in 1943, the fish and will goose these symbolize the work for preservation of the country's natural resources.

I'mted Mater Geological Survey (Department of the Interior). Alchough (seepen by referred to as a "pennant" the Survey flag has askeys been recrangular. The crossed pick and hammer on a trangle are a slight madigization of the design made prior to 1906 by Dr. François E. Matthes of the Survey staff.

United States I unicention at No. 1.10 had, early the initials "USIS" Since 1904 the Service's changes in attribution have been revealed by the seal used: after 1903, Department of Commerce and Labor; 1013, Labor Department:

since 1940, Justice Department

That d States Marking Community Two of the three thats anthorized for the Commission are shown. The Markings Commission Fine, established in Loss and testigned by the Bureau of Englaving and Printing, Transary Department, carries the Commission so d. The Markings of the Commission so d. The Markings of the Commission for the Commissio

The Merchant Marine Avalence at Kores Folint New York, thes a blue flug designed by Adm Richard R. McNatty, USMS. It has the Academy's designation, motto, and eagle device.

tion at States Paddie Mealth Sorvice. The Sargrow General's Flag catties the Service's corps device, the counteres (Shirtary's stail entwines) with serpents) crussed upon a faid tochor. The device represents the orfest function of the Service—operation of Manne Hospitals for merchant seamen. The Contractive Flag is similar if design but with the device in this on a yellow held.

Control States Facht Januar. Congress authorized the Treasury to be used vachts in 1848, and the Secretary of the Navy was instructed to prescribe the Ensign to be used by them. The New York Yacht Club suggested a design which was noved in 1840 on fac stall in use

For a dament yaids thigh, see page 647.

Flugs of the United States Navy, Page 645

Most lass and permants used by the Navy are made in various sizes. A large aircraft currier generally uses larger flags than a mestery smaller sizes are used on losses on languaged designs of these as well as times and position for display are established by Nuty Regulations.

The fillg of the United States, when used by the Navy, is called the Energy (pure 6-0).

things of Communical Blue that with white stars are for this officers aby ble for command at sea. A new set of these identical in design but with colors reversed, a prescribed for other the officers

*Information in this section was supplied by Countr T. & Kurte, Jr., and William & Kumpp QMC, Feet Section of the Office of Naval Country of assure L. S. Navy Department



Flags of the United States Coast Cuard
FLAGS OF THE AMERICAS

Broad Communid, Burger Communid and Section Officer Present Princents are also symbols of specific communid. Recent Regulations out the senior thicker Present Penantit, which has served this function for almost 75 years.

The Community Pennant is flown by all ships in commission unless replaced by the dag or

permant of an officer in compand

bittalion Flags (Battalian Colors) are carried by a miscal force organized as a battalian to identify the obsanization. There is also no Artibery Statistion Flag, with red field and unifor the example shown is that for the United States Navil Accounts, which has no special design

timidous are carried as unit markers by B.Astalous companies. Infantry and Aviation use blue guidans, Artillery and Machine Con com-

penies, red

The Presidential East Citations Present is flown by shi is vited for varianding performance in action. His estars on the yellow stripe signify additional awards. The Buttle Epicleness Pennant is awarded a ship of each class with the highest annual rating damag presenting

The Church Pennant, flown over the Ensign during thatch services conducted by naval chaplines on ships of the Navy, is the only flag which is ever flown above the Flag of the United States.

The Red Cross Flog is disates that the area is entitled to procession under the rules of the tremes Convention. In warriage, hospital ships aspare the Red Cross Flog in page of the Com-

repssion Pennant.

Places of the United States New al Receive. The Merchant Marine Play is nuthorized for scanning momentant vessels which are suitable for naval maniatics provided bull the officers belong to the Reserve. The Facht Pennant is deplayed by ynchis and sumbar veets suitable for auxiliaries if commanded at owned by Reserve Officers. The Yackt transer Distinguishing Premiut is a personal permant for individuals who made craft standable to the Navy curing World War II. Varial Reviews Buttalien Flags (Cours) and timbleto are used in the same way as Hattalian Flags and Gardons of the Navy (see above). A Natval Reserve Axisteen Flag (not illustrated) is authorized. This is blue with a white learner, gold etters for 'U.S. Naval Reserve" are above and

the name of the station is below the aviation waspe, which appear on the center of the flag

Certain administrative branches of the Navylane flags authorized; these are for the Medical Department. Bureau of Ordnings. Bureau of Ships, and Bureau of Supplies and Accounts

Flags of the United States Maxine Corps, Page 645

The word "Color" in the Marine Corpe always refers to the Flag of the United States that is home by Marine Corps organizations authorized

to corry that emblem.

A Stanford is a distinguishing flog terrical by certain units of the Corps. The Marine Creps Stanford was approved in January, 1989, as the Regimental Flag" and redesignated as the Marine Corps Standard in the following November 1 replaced the blue this formerly used. Organizational and Bottle Standards are the same as the Marine Corps Standard, except that the unit designation is shown on the riblion quiter the Corps emblem.

A Guidon is a sutal, the carried by companies butteries, and santher units, as unit markers. The "Guidon U. S. M. C." is sometimes called

"Dress, Cataldon,"

Flags of the United States Coast Guard, Page 545

The United States in 1790 established a Research Marine Service to enforce distours laws. Now, years later the Service was given its first flag (page 644, Customs). This that is the bases of the present Court Guard Smart.

The name Civist Guard was adopted in 1915 when the Revenue Cutter Service and the Life-

Saving Service were merged.

Fluids of the Coast Chard show the effect of association with the Navy as well as the simi-

but to of organization.

While the Sen or Other Present Pennant is still required under Coast Guard Regulations, the probability exists that it may be aban found following similar Navy actuals.

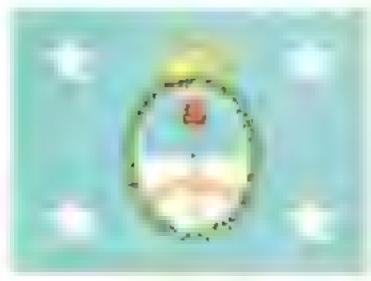
Flags of the Latin-American Republics

Pages 647-657

F.AGS AS SYMBULE of government are necessarily closely allied with political movements. In 1776 the successful nevolt of the American Colonies against England was shocking or thicking, according to one's point of view in 1789 the French Revolution with its cry of Liberty, Equality, Fraternity" awakened new hope of a better world for the common people.

Policies in distant Europe brought on a crisis It 17 ii. the 20 present Latro Assument rout these In 1868 Napoleon put his Ecother, Joseph Bonaparte, on the throne of Span. The news that becomend \$11, there fee timate king, had been removed from the throne gave impeted to the cause of independence among Span a colonists in America.

By 1514 the people in Spain succeeded in forcing Joseph out and restoring Ferrimanel to the chome, but it was too late to save the catonics Many of the countries did not was their free limit in auditional years of band righting, but it was certain that they would never again be subject to Spain. The effective strongle for freedom gave birth to must of the flags in this series



Adgetitutia Presidentis Flag



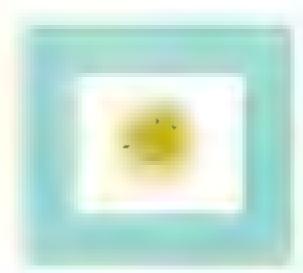
Angentina Cost of dring



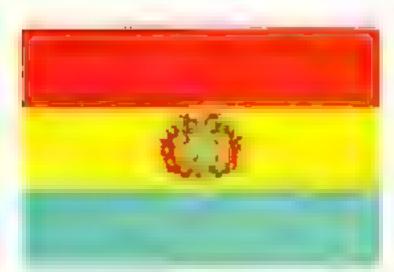
Argentina National Flag Ensign



Ament na



Argentina



Argentina Membant Flag

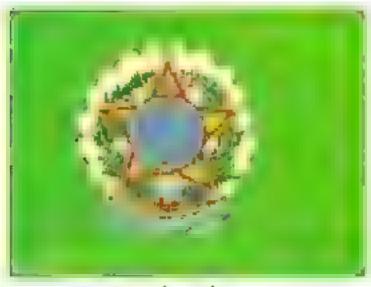
Bo wie Prodette Fing National Fing



Rospera Control Arms



Bolivia Merchant Frag



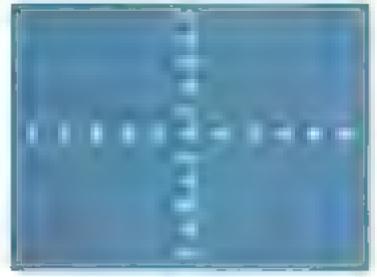
Brazil Presidenta Aug



Benefit Cost of descri



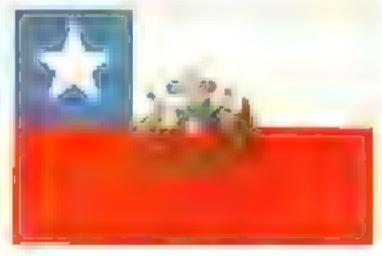
hornord Flag, Energy, Merchant Flag



Brace ken



चीचांट ort च Arms



Presuperty Fide

Argentina, page 647. In 1807 the famous valve Argentine regiment, the faterior thieraby "Paterinan" but usually called "Pateriors"), wore that and winte northerns. On May 25, 1810, considered the day when Argentina as a nation was born, many of the revolutionaries were wearing three and white rabbons.

A resolution on February 18, 1812, made the national cockade blue and white. Nine days later the Argentine blue was born in Rosaria. Gen. Manuel helgrand the patriot who created the day, combined the toions of the cockade. The day was approved in 1813, and again to 1816 and 1816.

Lack of uniformity led to the resolution of April 24, 1944, which based the fines upon the law of 18.8.

The "Sun of May" on the flag and cost of arms is a sympth of success in measury of May 25, 1810 (pages 6.88-9). The sun is from the aret Argentine come made under the law of 18.3.

The flog with the sum is afficially talled buredry de guerra, or war flag. But its use makes

it the National Flag and Ensign

The flag without the sun is used by citizens as well as by privately owned merchant vessels. It is in a sense a "private flag," but its use new makes it the Metchant Flag.

The President's Fing carnes the coat of arms of the Republic, approved in 1813. The liberty cap is a symbol of freedom. The chapted bands represent fraternity and union. The Liurel wreath is a symbol of benot.

Holivia, page 647. The producation of independence made by "Upper Peral at La Paz on July 16, 1669, began 15 years of warface. On January 50, 1828, Gen. Summ Balivar entered the city and progladmed the country's independence.

The flag, adopted in 1825, was of green rederen stripes with the arms in the center. The tollowing year vellow was substituted for one of he green stripes. Red, gold, and green represent the grinnel, mineral, and vegetal le longdoms. The the and arms now used were adopted by the law of July 14, 1884. Private tiliarus use the Metalant has

The shield of he arms has a landscape with Mark and the local transfer of famous fleere. The vegetable langulous is represented by a speaf of wheat and a breadtrait tree. A tising sur represents

the fit Lite.

Vine gold stars on the rim are for the Departments of the Republic, bobylan dags symbolise love of country; cannon and piles, armed strength. On the left is a biscity cap and on the right at Inca habit at the armed peace, a conder is the crest of the arms.

Bread, page 647. Unrest in the Empire of Brazil, ed to a Bhad ess revolution on November 15, 1889. Four days later the National Flag was decreed

The flag's designer was Declo Villates a painter

who worked under the direction of Magnet Lemos. The design actor some resemblance to the Empare I lug. Trachiton now suggests green for lorests and yellow for gold, or the vegetable and numeral kingdoms.

The sphere is a conventionalized picture of the sky at Kin de Junico with the Southern Cross at the meridian. Blue is for the sky and traffemity. The whole hand is the park of the earth

.hrough the beavens.

It is reminiscent of the astronomical instrument called an armillary sphere; this, and the Southern Cross, were guides for explorers. Blue and white, originally from the Loringuese flag, are for colorial and monarchical periods. The 21 stars represented political divisions at the time the design was approved and are a symbol of civic lade-pengence and cooperation. The motto on the dag is for the future: Tedera & Progresso, "Order and Lyngress."

The Fre-ident's Flig has the patiental cont of

arms near the staff,

Superimposed on the large star is a blue band with 21 white stars. The five silver stars in the center are the Southern Cross; the large star represents unity and terretorial integrity. The golden rays denote the rising nm, or confidence in a glorious future.

The large star is supported on a vertical sword a star appears on the hit. The branches of confer and tabacet are symbols of commercial wealth. The blue ribbon carries the name of the country and the date of the foundation of

the Republic

Chile, pages 647-650. Chile's car y flace were horizontal tricolors. The first, b ne-white-vellow, was offerably raised on September 30, 1812.

In May, 1517, a blue-white-red horizonta, tricolor the "Flag of Transition," was established, In September the present flag was decreed. The designer was Carlos Wood, an "Anglo-North American artist contracted by the Chican army as a malastry engineer."

The star may have come from the pennants of Chilean Indians, and it represents them. It may also refer to Chile's geographic possion. A patriotic sentiment states the star represents "Independent Chile."

Source of the colors has several explanations. The one generally accepted by Chilean historians is that the colors were anapired by the Flag of

The President's Play is fixe the National Flow with the with on of the neme. Chile's third one of arms, how used, was designed by Don José linacia Zenteno in 1834. The Chilean star appears on the stiele. The supporters are a human and concor. The crest is three pumes, blue,

white, and red-

The morro for he Russin o la Fuerza, 'Ry Right or Might ' was a patriotic siegan during Chue's War of Independence.

The Jack is the canton of the National Flacbut the star is proportionately smaller



Six Is Americans. There Were Soon Kided. Raise the Island Over Iwo Jimit

Levi to the property of the state of the sta



FLAGS OF THE AMERICAS

Cuba

Dominican Republic Mathamat Flag

Cuba National Flug Easyn Merchant Flug Colombia, page 650. Bollvar believed in the passibility of a great South American unit of sparts and the intendencia of sparts. Examine, to New Grana is to form a country which he named the Republic of Great Colombia.

The festeration used the first designed by Francisco Maranda and thread by the Bouverian armies (page 639). It also used the cost of arms

if henezuela with a few minor changes

Relyans hope for a United States of South America was short lived. The format desolution of the union was recognized in 1852. With the breakup of "Greater Countilisa," the Republic of New Granada kept the tricular flug, using a batter with time stars in the center until 1859.

The Na onal Flag of Colombia used on Government but dongs to the tricular. The the of the Colombian Navy (Finage, page (1984) adds the Colombian coat of arms. The Army also used the tricular with the arms and the name of the

NN Y of 1700ps

The top of the shield of arms has a pome-grana c, or grander, a heralthe pure on the name "New Granada". Curaucipias overflowing with fruits and old color show agricultural and mineral wealth. The tance supports a liberty cap. The porture partrave the lathous of Paratta, with one ship on the Paratta Order through and another on he Caribbean Sea. The conder is a symbol of independence. The proper part the samily is Libertally of Paratta, "Liberty and Order".

t new drawing of the arms supplied after the color plate was made shows the conduct factor factors.

lass are omitted,

The Membant Plag corner a budge with an eight-pronted mar

Costa Rica, page 650. Costa Rica gained its independence in 1621. In May 1823, the new nation adopted a white flag with a red star.

This first was replaced when Costa Rich james the other four provinces under the name of the Lancel Provinces of Centra. America. The land of the Federation, adopted in 1823, had olar-white-blue horizontal stripes. From this tast five of the sta Central American countries derive their day.

The present flag established in 1848, is the old

Pedendan the with a contective stripe

The National Flog of Costa Rica is also the Merchant hand Coveriment buildings use it with the addition of the cost of arms. The flog with grown plso serves as the Engine the Army year this day with gold numerals.

Essentially, the court of arms as in present use was established by decree in 1848, but in 1900 the trophics on cach side of the shield were

Janggard.

The same on the arms shows three volumes (Turnally, Irasi, Priss) connected by a value between the Atlantic and Pacific Oceans. A moschant ship appears on each ocean, five stars-embolize, he Republic's original five frowinces. Above, myrite branches are leaf occurred by a tilen carrylax the country's mane. A obtion

tied like a cross a bas the monts América Centrol-Individuals may adopt there houses only with streamers and permants in the national colors.

Cuba, page 65th. Narcisa Liques, who had fought in his native Venezuela against Bolivar hid the first shmita ant fight for Cuba's unlequal-

rate: he was garroted in 1851.

Lopes was the originator of the flag of Cubu (page 639). The Cubun past Materi Teurne Toles does the flag in 1849. Blue, white, and red are the colors of liberty. Hive stripes represented military districts; white, integrity of pathose; red the bond of pathots. The triangle would observe are oncer. The "Lone Stat." originally selected to best the way toward freedom pasy represents Cuba a glory and independence.

Carlos Manuel de Céspedes used a flag with the Lépez eclurs in the Ten Years' War, which

statted in ISBS

Cuba's freedom from Spain resulted from the long struggle the Cubans corned on for their independence during the 5th tentuty, which was brought to a victorious end with the Stanish-American War. Lopez's flag, La Littela Soutaria. "The Lone Stat," was first raised as Cuba's efficial emblem on Morra Castle on May 20, 1902

Culty's cort of arms was also drawn by To do Rocky capes represent. North and South. The Golden Key between the capes represents Caba, the key to the Gulf of Mexico. The sun shows that Cuba was freed by the blood of heroes and that she has a bright future. The shield also has stopes from Cuba's fing and a landscape with a cayal pain in a waley. The fasces top by unity and freeenity, and the cap laberty.

The President's Hag bears the time. Lopes's flig is now Cuba's National Plag. Ensign, and Mer hant Flig. The Jack is similar to Cospedes.

design

Pominican Republic, pages 650-652. Spain certed to Trance the eastern end of the estand of Hispanicla is 1795. Returned to Spanish control in 1814, the Dominatus de lated themselves independent in 1821. From 1822 until 1844 they were under the rule of their western neighbor, Hait'. Juan Pailo Diame formed in 1848 except society called La Transferie, 'The Transferies,' which achieved an iepen ionce for the lates.'

Isuarte's design for the Nationa, Flug has seen used a restrictly except for the period from 1864f 5 when the Dominicans were again under Spain.

The coat of arms also designed by Durate reveals a book of the Gospels, surmounted by a cross. The roote Disc. Patrix y Libertal, "God Capitar and Liberty," was the Trianarian password. Red is for the blood of newest white. That's of redemention; blue, liberty

The stripes on the Army blug are green for miantry; white, assation; red, untillery; yellow, easaley. The Army blug is relsed with the

National Flag

The ring of the National Palice, not shown.



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FLAGS OF THE AMERICAS

has three scripes. The National Flag is in the top stripe next to the staff; the remaining section of the stripe is blue with five white stars. The m d the stripe is white; the bottom, emetad green This fing is flown with the National Page

Heundor, page 652. In August, 1809, Quito. now capital of Ecuador, attempted to throw on the yoke of Spain. That first night the ye lowblue-red colors were mentioned, and later much sighteng was done under them, although they were our muchally Quito's this until 1822 when the became part of "Grenter Commbia." Walndrawing trom Calembia in 1838, Quito, renamed E undorpregiond the colors, which she has used since. except for the period between 1845 and 1860.

The Narional Flag of Ecuador is the triblar with the arms. This design is note the President a High Ensura, and Jack. The Army uses the National Flag, adding numbers for units. Minnespad but diags use the tracolor with 17 store tepresenting the Provinces. The plain tricular is the Merchant Flags it is used by sidizens.

The arms have been wabshinting the same since 1845. The sun appears with earns of the zodak representing March, April, May, and Jane. Ram Full Twins, Could of 1945, when Equation was trying to ward off foreign domination

At the left is Mount Chimburazo, where bells yor first thought of a South American union. Mountain and river symbolize the muon of mterior and coast. A stemphont retake that the first occupaciting sailing vessels built on the west coast (I South America were constructed in 1 1,41

The ship's mast is a caduceus, symbol of Mer. cary, god of completes. The faces represent the topich ican institutions of the country. The lancereppec flags mean that the citizens will defend their country. The condor impressuls strength and saloga

El Salvador, pago 652. El Salvador withdraw from the United Provinces of Central America in 1838, hat she key! the Federation flag 1; age 651. Cost : Rica i tratal 1865 In that year she a lepted a Bug, but in 1912 the old Federati to dag on l arms, slightly morahed, were resoured

Store 19.6 both the National Play and Euslie have been the Federation that with arms. The Army uses the flag with the army but places the mento Diou, L'ann y Literad, "God, I alon and Liberty," on the top stripe and the number of the upit on the bottom. The Merchant Flanuses only the motto in siver letters on the center stripe. Unonicially the motto is sometimes shown in blue, as educe or gray is hard to show or white.

The present day shield of arms of \$1 Salvador has live volcanoes. The desire to retain a desire similar to the Federation arms explains the prescase of the two oceans on the arms of a couldry. bordering only on the Facility. The mittoow is a symbol of optimism. In the rays from the liberty cap appears the date "15 de Septien bre de 1821, "commentoraling independence from Spain. The month is sometimes ab reviated.

The shield is supported by five three. Below is the motto, they, I man y Libertal; sometimes the "y" is amitable

Contemula, page 652. With the discounter of the United Provinces of Centra, America it 1859 Contemple sept the Federation flog (page 651, Custa Rica, but changed the coat of arms A seven-strike flag-blue, white, red, yellow, red white the-was adopted in 1891. In 1871 President Garcia Granados ordered that the flag have the United Provinces' colors in Acrium stripes. The Narronal Fing of Lauri mala has the root of arms, while the Membant Flag is plain-

Gamteria a a forted new prins in 1245. The arms now used were decreed in 1871. Swords and titles inclinite that the people are willing to risk their hyes for freedom. The sero I bears the legend Libertid, 15 de Settembre de 1821, "Laboury, September 15, 1521," the date of independence from Spain. Recently it was discovered that Guatemata's national bank, the quetzan used on the arms as a synther of freedom, could survive casalvity

In pre-Conquest times, only tribles were allowed to have hadges, prices, bead because, prof well decombane made from the features of the

traliant male quetzal.

Legend tells that the quetzal led the people of Chartemala (brough the untains, deserts, an i forests and divided the walers of the sea so that they could coass to the land which was to be their usin. Over Mexican legend, page 655.)

Haiti, pages fold fall. At the beginning of the war for independence from France, the Mattauts used the I reach Tricolor, but in 1503 Gen. Jean Jarques Dessalines adopted a distinctive flux the French Tricolog from which the white stripe was form. White was a noted because a was considered a symbol of good will toward I made. Red represented the Mulattues and blue the Negroes Later black repeaced blue.

After Dessalines' assissination in 1805, Harti was divided between Henri Unristophe and Gen-Alexandre Petron. Christog he adog ted the black and red vertically striped, or fimpire thig. Périon. acopted blue over red with the sums in the center.

the flag of the Republic.

When Gen, Jean Lierre Boyer united the Dominican Republic to Haiti (1922-14), he use I the harizontal stripe tlag. In 1843 the Cons. I. tution described the horizontal blooks of blue and red with the arms as Patient had used it but

When umon with the Longition Republic ended (1644). Hutt retained its blag and arms. Thus they base been in continuous use since 1807. although a shight through was made to the arms from 1849 to 1850 when Illust was an empure

The 1920 decree describes the arms as a palsa tree int profe surmounted by a Lorety cap. Imprements of war surround the tree. The size of the arms on the flag is not set by law; size ideatrapped is that used by the Army

L'Union Fant La Force, "Utilon makes strength,"

is some lines attributed to Pélion



A car her Frag

FLAGS OF THE AMERICAS

Hondures, page 654. Upon its secressia traca he United Provinces on November 1, 1888, Hopdigns raised the Francisco' blue-white-blue flag. with a distinctive device in the center

The National Place and Ensign have the coat of arms with five high stars in an are below. The Army also uses it. The Merchant blag has the stars, placed in a different arrangement.

White symbolizes the asymmetric for peace: plue, the nation's hope of attaching the highest negree of culture and civilization.

The five stars depict the ideal that the countries of Central America may again be unated page 651 to

Changed only slightly in a century of use the true preserve the treaticle, symbol of equality and Justice, from the arms of the United Provmees. Carding the oral are the name of the country; the morro Libre, Subcrasa e Independu are, "Free, Sovereign and Independent"; the date of independence. Above is a quiver of icrows, flanked by home of plenty; the home mean that the courtry's weally is attained by the labor and union of its people.

Water amound the triangle is for the two occurs: the minlow is for lone; the castles stand for the sovereignty and integrity of the country. The mus and pines are takens of the attempth of the people and field hope for the development of their country. The too s-wedge, spalling (strik) hattimer, sleage beginner, stone drill, utal markeeightly the country's call for its people to make there matienal conscience with honor and labor.

Mexico, page 654. Fr. Miguel Hiddigo, who ted the fight for freedom from Spath in 1810. used a preture of the Virgin of Guad, tupe on his tlag. Fr. June Maria Moreko's army had a blue and white flig with the first Maxican arms in 1811 In the head struggle a white-blue-red horisonial fricular was the emblem

Gen, Agustin de Iturbide, a royalist ouicer joined the insurgents and forced the Spanish to accept the Plan of Igualn to 1821. Later he had Support convered as Emperer Agustin I, but was

forced in all dante in 1823.

Iturbide decreed a white, green, and red llagthe "Flag of the Three Castantees," for the colors symbolized 'Religion, Independence, and Unload," guaranteed by Igania. The Supreme Provisional Council added the pros-

After Rurhide's cathronement the flog was retuned, but the order of the colors was changed to green, white, red. There have been make winning on the arms, but the 1924 law decrees that they be identical with thuse of 1841,

The eight has two legen is. Starthing for a 10 to settle, the Azters in 1375 name to a adre. In this I they saw an eagle perched on the stem of a nopul, or prickly pear causes proving out of a rock. In its falone was a semical in the this as a good omen, the Aztees founded Tenochridan, site of Mexico City. Another version by has Montegunia was borne on the earle's buck from his littlip ace to the site of the future city.

The harpy cagle the Asters' "wreged walt." is Imported killing a serpent, this symbolizing the teraugh of freedom over the evil of oppossion. Italy forw uses a plain green-white-rea transce as its National Fast Since Mexico has used this as a Merchant Fl g for almost 130 years, confarzon between the two should be availed

Nicaragua, page fort. Nicasana Jained the federation of the United Provinces of Central America in 1823. After with browing to it in 1838. Neargest continued to use its flag and arms changing only the name of the country stound the orn a until April 2., 185-.

The new dag was a yellow-white-red horizontal incoder. In the center was a cost of hims. a logged by the same act. Merchant weser's replaces the arms with the rathe of the country

an gold letters

Just how long this thig was used as not known out custom re-cetalm-had the flag of the Etates Frowness and in 1908 in low established the arms and flag as nearly like the old as possible.

The five valcations (page C39), bonor the 5 ares in the United Provinces. The sides of the equilateral triangle invites a that the bases for republian organization of the State should be Justice Truth, and Kight

Since 19th the flag design has served for National Flag, Envise, and Merchalt Plaz. The only difference made in it is that the lettering is in gold for offices of the State, embussion, legations, consideres, haveland member but the events, and the Army: it is in adver for lesser Covern-0.11.7

Paname, page 654. Panauu teclared her independence from Spain in 1821 and joined the Repulshe of Colombia. Thus from 1821 until 1983 Panama's flag history is illentical with Colombia's Cauge 6511

Arrest failure of the Evench attempt to build a conal across Panarga, the United States and Colomb a negetiated a canal treaty in 1503. The Coloraba are refused to ratify the treaty, and Parsam r declared its independence.

Manuel E. Amalor, son of Minuel Ampley Guerrero, Panama's first President, designed the than. It was first reused on November 3, 1904.

In the Constitution of 1984 the flag of 1983 was approved provision; By, and the Constitution of 1946 confirmed at. White represents pence; red on I due the union of liberal and conservative parties; sture, forth and etechnick in the future

lake the flag, the cost of at its was approved in 1964 and 146. The green full symbolizes vegetation. The landsrape shows the Isthmus The moon rising from the sea and the sun setting over the mountains induste that independence was horn when afternoon and eyelling their

The all andoned sword and gun mean "farewell to the risk wars which have beteliding been the cause of our run." The spade and hoe represent Isbor. The cornucupia is for plenty; the winged

wheel, for progress

The motto is Pro Mande Beneficia, "For the Benefit of the World ". The none gold stars repreaent die Provinces



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FLAGS OF THE AMERICAS

Paraguay, pages 65%, 656. Paraguay is the only American repullic which has both an obverse

nd reverse for its Wattenal Flag

Contemporary accords show that in June, 1511. a month after Paragony declared her independrace, a blue, fie-b-color, and vellow incolor bearing the arms of the King of Spain was raised in Assembline. In August a year later this flag was replaced by a ped, white, and lifter flag; one side carried the name of Asomion and the other the arms of the King

A law in 1842 stated that the As ional Flag should by the "sume as hitherto used by the Nation . . . On one side the mational Cont of Arms with a Palm and Ulive tied together, a Star being above between them. On the reverse of eartile with the inscription Pag y surroug [Peace

and Javice , and in the center a Lion."

Thus the flag's defore have remained unchange I since 1512. The reference in the liw to the National Arms is confusing. Many historians teel that the design was new in 1843; others that the law qualiffied a design in use. The lion badge is from the Treasury beat. The devices on the thin however, have been used more than 100 may although the drawings of them have varied during the period. No official explanation was given for the star; the lim and the liberty cap it guards symborize liberty.

Otly the arms appear on the President's Plag. and details of the design are slightly different.

Poru, page 656. When he landed in Peru to liberate its people, tien. José de San Martin, audording to ligated, disturbed a thock of birds with white breasts and brilliant and wings, apporcitaly throughes. He haded them as the "ile of E . de .

The San Markin Flog, created in 1820, was descendible divided into form trangular sections two white, two red-with a coat of agree in the center. Since San Montin's disagn was deficult to make, the flag was changed in 1822 to three borzontal bands, red-white-red, with the sim from Sun Martinia genea in the depter, Bufflebeld. confusion with the Spanish pro-yellow-red flag led to the use of the colors in vertical stripes

When Fertt established its soveteignty in 1825, the vertical red-white-red flag with a new roat. of arms was approved by Gen. Sim in Bollyar as be National Play and Enggn. The Merchant

Flag was without the arms

The ar as, adopted in 1825, are used in different Intilia of the National and I resident's Flags

The Jama and the Sinchona thre are mative to Peru Gost critis pour from the commonple. Together the three symbolize wealth in the animal. vegetable, and mineral kingdoms. The civic atomic of launch used as a crest and the palit and lautel wreath are for petraction and glocy-The crest and laurel crowns on each safe of the chiefd are for Lama, "City of the Three Kings."

Crudusy, page 656. José Cerrasio Art gas. Unighted in hero, he perlutes Argentum from Spatish full. When the Crugusy as in turn

wanted to be free from both Spain and Amentica. I forth the a force of a taken of In this struggle Artigus created Uniguny's firting, the design of which sarrives boday in the Jack. After freeing thermselves from Argentina the Uruguayans were invaded by the Fortaguese of Brazil. By 1528 fall independence was achieved. The most fighting was done under a blue-white-red horizontal trien or,

Urbeithy fronted its flag as a sovereign forher. in December, 1928. It was where with nine has eriges and with a sun in a white capt in

In July, 1850, the flag was changed to have four blue stripes. The sun on the dag is supposed to be the sam from the arms with the was completed; this muses 20 rays, although many in lane 16-my suns.

The aute stripes represented political devisions of the country when the flog was established, the enters show the country's former relationship. with Argentina. The "Sun of May" (page 638) here syn Lahres Uruguny's independence.

Originally created in 1579, the coat of gons assumed its present form as a result of rubnes made in 1996 and 190s. The scale is for equality and justice: the Cerro (Mountain) of Monte withou with the fortress at its top is a symbol of strongth. The horse running free is for liberty; the ox is fir plenty in a land primarily devoted to up the mising. The crest is the min-

Venezasela, page 656. Francisco Mazanda 'Precursor of Independence," attempted unsuccossfully in 1806 to star his countrymen to revolagainst Spain. Muranda and Sanda Italiyar, "Liberator of South America," succeeded in [81] in kaying Yenezoria proclaimed independent, The government survived only a year; not anti-1824 were the Lat royal troops repelled.

Maranda flew a yellow-bare-red tricolor presumality designed by himself (page 639), and Boltyar used the combination so consistently that it is frequently called "Balivar's come," At the time tacy were integeresed to mean that golden America was separated by the ocean from Small

When Bolivar mated New Grangeta (Cotoms but), Quite Historically and Vehranela to form the Republic of Coombin, there gold to were adopted for the Hig

Withdrawing from the union in 1829, Venezuela kept her colors; they ap war today in the thigs of all three countries which once formed the Lujan-

The stars were originally six in a circle and one in the middle to represent the seven Proy-MCCS which joined to declare their independence. Since 1930 the stors have formed an arc. Estabished in 1836, the arms were changed by aghsequent laws, the latest in 1750. A hardle of wheat stacks symbolices both the moion of the Provinces and the feet lity of the country's soil; a trophy of arms and thags indicates traumph The untained horse is for independence and to be a set of a set of a set of the set of the de 1510 Interprentencia and 20 de Februro de 1859 Prederachin E. E. U. II. de Transpola the 'United States of Vetterrally " is helpw



to the property of the earth is a see The report of the earth of extending the earth of the eart

A Woman Paints the Tibetans

By LAFTOIR

T WAS a girl in Paris, barely out of art tows in meadows and Bowers in bowls. The Orient tugged with such fascination that I resolved to paint its peoples, no matter what the bandicaps or dangers.

My devoted parents, both conventional French people, considered their ambitious daughter mad. Passport officials, upon learns ing the forbiblien places I wanted to visit,

laughed to not.

Nevertheless I went. Since the day I left home, I have pictured the racial types and costumes of Ceylen, India, Tibet, French Indochina, Burma, Siam, China, Japan, Java, Buli, Burneo, Iran, Iraq, Trans-Jorgan, Polestine, and Syria. I have traveled by foot. automobile, bullock cart, yak, donkey, glephant, piroque, and bamboo raft. Though I went armed with nothing more than a painthrish, no Oriental bad muu molestel me.

Kibitzees Watch the Artist Paint

My safety, I am concluded, I ewe to the tools of my profession. My brushes, pencils, end pigments, when applied to cancar, plywood, or paper, itlaitmed the stepiclors of the ignorant and whitled the heperment carausity of the powerful, making friends every-WHERE.

Let me set up an easel in jungle or desert, a crowd appears as around a stdewalk artist in Paris. If I have a model before me, my audience tells him what I am painting by pointing to their own faces, limbs, or garnents

Three years of painting Jacka's makarajas. left me weary of their murble palaces, gol lendiguet services and silver-triumer automotoles.* Forbidden Tibet, nehind its cased doors, someted the call of the unknown

English officials were shocked at the idea of a wrman traveling alone in Tibet Just as I was beginning to despair. I received permission bego, will the sub-denomic and the Man ate a larger tree of the larger tree of the

for safety.

To visit the places I wanted to see, I was compelled to make three expeditions into lofty. central Asia, selfing out each spring when thaws opened the rocumbain pusses and returnmg rach antiford before snow theken them.

I read the start gar, capital of Kashmar, I made

my first trip to Ladakh.t.

Politically, Ladakh is a part of the State of Jamuna and Kashmar, of which it occupies the eastern section. In everything rise the two parts of the blate are as far apart as

the poles. Kashmiris, predominantly Atyun and Moslem, live in a green, watery vac-Ladakhis, Mongoloid and Jargely Budchest, dwell in a cold, lifty waste (map page 601). Ladakhis acknowledge the Dalid Luma of Linesa as their spiritual leader; they speak a Tibetan diabect and dress in Tibetan style

In Schager I hired as guide and interpreter a Tibetan boy who knew Hindustani, with which I was familiar. To meet expenses, I packed a chest with silver rupoes. I in all his lets in the great shaping tank by the ne tent, and food for seven months. In odd total to such stay les us potatoes, dried beans, flour, tea, coffee, canned meat and milk, I selected jams, cakes, and chocolate cardies—and very useful these sweets proved to be.

My last preparation was a bairert, more lashion, a precaution taken for sanitary reasons. Leaving dresses behind, I set out in mots, riding breeches, a man's shirt, and cout. later, many a rative of the Himaliyas never could passive mat whether I was man or woman.

(page 685).

Skikoras, Svinagar gondolas, ferried us upthe Sind River to Gandarbal, where we know porters. Supplies, packed in skin-covered tates, were lashed across the backs of five

little Tibetan pack ponies.

Our caravan set out one April morning, and did not pause until strodown, a rottine we followed thereafter. Eating lunch was not as important as making rest camp before dark. I learned to limit the middley meal to a few crackers munched in the sachile,

Ponter Bog Down in Snow-clogged Pass

At Sormmang we confirmined the western Humadavas, which disply Kashipit into Iwa parts. The gap through this tange is the 11,5×0-foot-high Zorl In the means passel.

Winter's parricade of arow still lay in the pass. Soon our pomes, floundering in snow up to their hips, could carry human cargo no longer, and I proceeded on foot. Where our horses stalled in deep drifts, the parters pulled them out by head and tail.

Each joy stream compelled us to puck and repack. Snow landges trembled above deadly.

• See, in the Northead Georgeague Managerer "Frankel Splendor Lingers in Rajputary," by Auliatuar Wenterl, Oktober, 1948, and "In the Realms of the Moltarajas," by Lipsirtore Copbry Throw and Margaret S. Thaw December, 4240.

Thee, in the Names of Greekspain Magazina "The Idylar Vale of Kashar r" by Yolkmar Wentiel-April 1988; and "House-Stoot Davi in the Vale of Kashmari by Flaterice H. Storden Ochsber, 1929.



Ladakla Sele offices in Let "Learn a Sentence" of Knowledge Every Day

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the session of the second turned. Same the act of the second size in a second turned at the second second in a second sec

Tantastic Shapes Det a World I indscape

In 14 hours we covered eight nuies, and by a price we reached a principle rest hat. Extra told I relied up in I hankets and instantly a limited.

 from tumbling coantle : _ r al ; sections

The road continues up to the section of angen

As If Natate had not make this country want on the man had made is more in the last of the

for recent to each viliage assembly was need by a bend runn, a wall of praying



Samme 25 Millsfort Peaks, the Author-Artist Explored the Gautier-capped Roof of Asia

of the contract threat some it is section to the sky buch to ladyly a more and religion as at a section of their policies are used of the later of which there are it is a trace to the western as a first term of the later of th

stones, each inscribed with the prayer the mani padme ham, meaning, 'the two well in the lotts, men."

Where Prayers Are Said by Machines

Traver wheels, turned by hand or stream, and prover flugs it. Attending in a breeze ground out the same supplication automatically.

Stones in a mani are carried and set a pious monks. Their magic power is supposed to lessen the periods of purgatory for the spiral after death until it reaches North the the "perfect peace" of complete extinction. On divided trails the traveler is supposed to keep the manion has right hand. I not a followed the custom, though my westy posters, trudging beside their beasts, some mass neglected it (mage 676).

When you are dead treet at the state and day's journey, a man i makes a welcome sight, and you say to yourself, "We are near a village." Your wise little pomes seem to sense the fact, too. Neighing, they smill the as if stenting friently stalls.

Mani walls, some a mile in length, generally end with chartens, the dried-mad or stone



Himis's One-man Band Bands Cymbals and Drum

the self to act, it the self of present the ashes are now with clay and molded into a figurine, and the new many that has a self the self of the self

The could be the the Lather's companies a time of the could be seen as the could be seen a single of the could be seen a single of the could be seen as the

in sea of the restrict to man-chorrens, and relicioned to the discrete of a closen of the set of Zoii Pass. We were to inding a tarm on the trail when suddenly the spectral of the navaruble of the contract of the spectral of the section.

I wright was falshed at some various of the sun of list to turned the survey.

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First Visit to a Monastery

The most manning for and the measures.

In a strong for the second strong for the second strong for the second sec

I found for any extending a decay of the production of the product

up the face of the verter in A of her the lamas received me hospitably and won't toolly.

Just as the sun was -- time installed the trust to paint the galded tow pack. I had harely started when a band of a sub-very and old, came runted day he said the garden by should not be said themes. He may to tend them. I retract to my tent out ill came crowding in, and the aumosphere to one talker.

the a state of the boll, at that manners the analysis and all the bolls are the state of the state of the bolls are the bolls ar

to the easier bits discord or sturney we note into be our best of a larger test

by trail from Stimagar.*
The great white palace of a deposed raja hung over the town from a mountain peak

An avenue of poplars led us to the market place, where indoler merchants satisfied : mong their water troop it a lane led us to a social to where we i esturati atri pontes nd pit 3 cit 1 to 5 14 21 1 The Selection by Market . . P soupods with out wire is, fac termin Ka o Yanda Ille, brigge and orize romantic places who so very mention excires the dullest inc. n., | 111

Here men from Surkinne unload todes of wick test and felt to as and trade with Indians for spaces and manulactures

Later, when Lah was furthing with summer a greatest activity, the streets were a build and yaks, ponion a reses or wiled the carrivansaries (page 683)

What a gallery of what types! Fair, blue-eyed men from the night rubbed shoulders with hearth d. tut saled

Kashmiris. Almondeset l'inclans, crafty Viongoliana. All were in a burre to sell, but, and go home, 30 to 60 dives away, before snows blocked the passes.

Harm Himas is two as a company.

Women Wear the Cohra Henddress

Ladakhi men wear their hair in pigtails and, to make at appear longer, add braids the king of Above their trousers, tight at the time of the drape long homespun robes and it in middle with purple belts, to who is no attach knives, needle kits, who den had the wear attach knives, needle kits, who den had the wear of capper carps. Cloth at the wear of capper carps.



Tuse Base Blave Recommed Sins of Their Own

A transfer to the second transfer transfer to the second transfer trans

More endress in the same shapeless fashing but the most nagged is generally laden with necklace, bracelets, and carriags. Their head-dress winged with two enormous ecomous of both is a contract with a most callet to and in which have the proof of the period.

Institute of the called the pryrate, - 1000 to travelers as the cabra headdress since is shaped like the snake-spreading hood since a weman's desire in a measured to her pretak, a fortune or him of the march of the practical for worth of the results.

I taked the Ludakhis, a simple, baraless

St. Ward [Prof. proj. Mr. 1974]
Mark L. .

hespitable people who do not seclude their ware a refuse to est with a Caristian 15% of a Visited the home of a prosperous 1.1 to 14, one which had three breadwinners to support five a ouths (page 666).

Wate Cooks for Her Three Husbands

To see the family at dinner, my interpreter and I climbed a ladder to a well-furnished parker dining room. A stove, on which soup was simpering, clouded the room with the sufficienting smose of argod (dry row dung), the common fuel in these wood scarce regions. A hole in the roof expelled a little smoke and admitted less air and light.

behind her pots sat the mistress of the house smiling sweetly as she welcomed me.

Sented at the dinner table, grinning in sweet felicity, were the lady's husbands, three bothers, for caps poshed back on their shaven heads. S. upping their thinks, as if at some joke, they bughed loadly, obviously anaware of jealousy, fatal passion, or their extraordinary marital status.

From the dining room I peered through an spen door into a small bedroom. On the door the chosen spouse of the night had hang his belongings to show that the place was taken.

His brithers had to sleep elsewhere.

The only child, a small boy, sat besale his mother, the supreme authority. He was a wise child indeed if he knew his father, the eldest husband serving nominally in that capacity. The word 'papa' did not seem to have a nicke in the boy's vocabulary; he addressed the three brothers as "uncle," a greeting he applied to all men

Having served the soup, the wife followed with the main course, ter and tramba.

Compressed-link ica, caravan-home across China and Tibet, was builed for an hour; then the contents of the pot wire poured into a bunbeo churn, a gether with a lungs of rancid yak butter aged in a sheepskin, and sait.

Now the panisha, a parched ground natey, was molded into balls and dunked, it against

Indition, into the lister test.

This repast is served daily all over Ladakh and Tinet. Aside from an occasional post-dish and a few vegetables, many Tinotans subsist on tex and teamber, and relish it. I liked the barley, but could hever stomach the butter ten.

In the painting you will see two churus. On the wall are ters of metal dishes.

Among Occidentals, none of my oriental paintings excited as much interest. It is not taken than one wife) the Western interest to incept as the practice of some Moslems, but Lagakhi pady only there than

one husband) never fails to astonish him

This system, no matter how it shorks the moral senses, does have the virtue of limiting population pressure against an unproductive country. The Bu Hhist church does its share by keeping approximately every sixth person usite or female, in a convent. As a result, centine poverty among Ladakhis is ran

In the Othert, where women's therties are few, the polyandrous code planes the wife in a commanding position. She supervises children, food, clothing, and money. Pera ment guardian of the house, she seldom is ket without a man in the house. When she provides she is privaleged to take as minor husbands two of the bridegroom's younger brothers—never the other brothers.

Children are adored and spoiled by everyone

in the house,

Even husbands have advantages. One may be a caravancer visiting distant lands; another a herdsman summering on lofty, grassy plateaus, the third a traveling merchant. When his job in the merciless outdoors is done, each has a blissful shelter at home. And think of the money he saves!

Merry Pilgrims Go to Devil Dances

For my next assignment, my interpreter and I rode to Hous Monastery, 25 miles from Leh, to see the monks' annual mystery play, commonly called the Devil Dance.

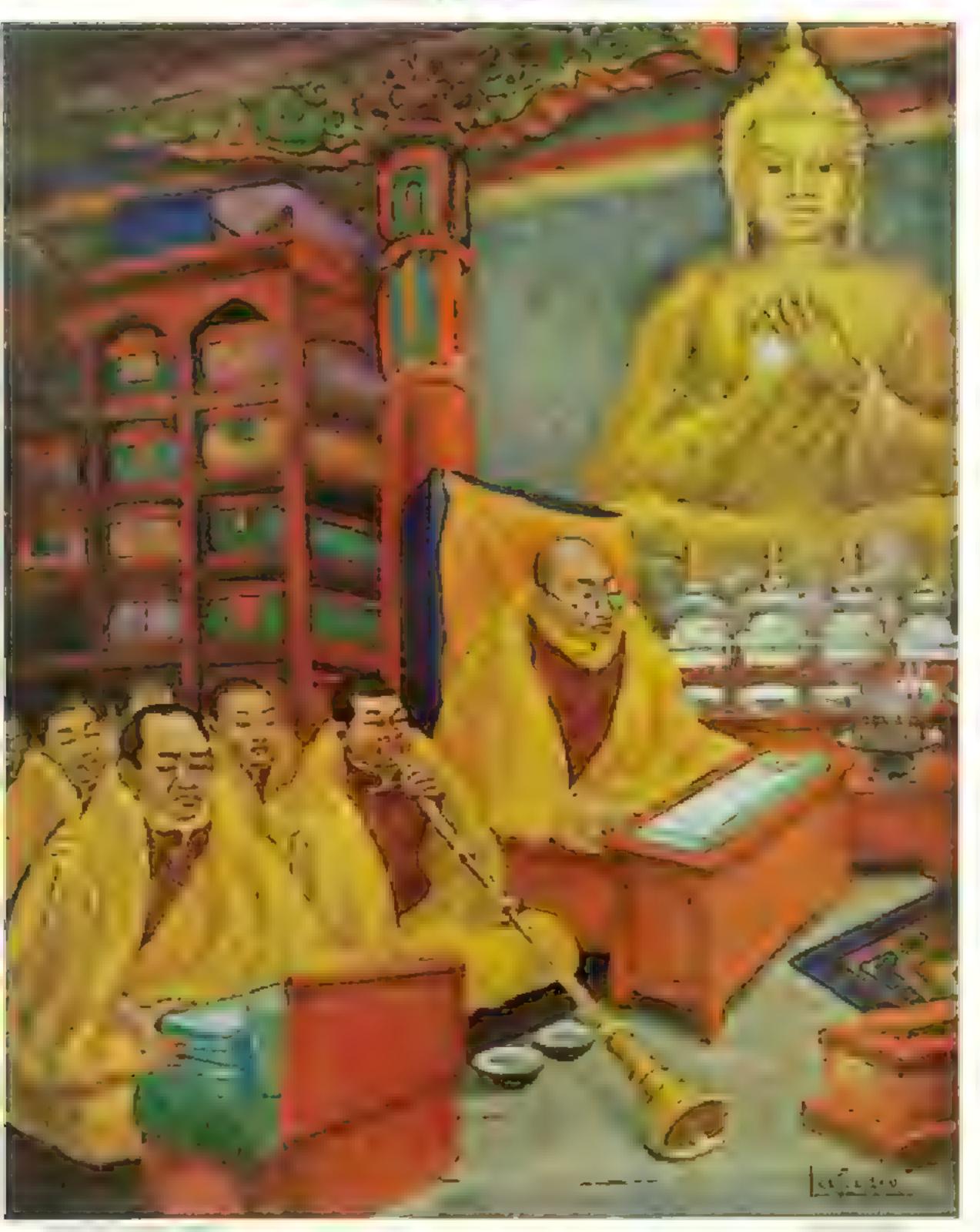
As we approached the monastery, nor trait was througed with merry polarius, some on horse, some on foot, all dressed in their gayest wordens and silks. Jokes sped from lip to lip from Lathach came tomas of the Red sert, at order following many weird practices of an older Nature worship. Tibet contributed manks and puns of the reference! Yellow seet Elegant Hindas and storage! Mohammed, as joined the procession. The tolerant Red lumns well uned ad.

We arrived at Himis, a vast lambury perubed on a rugged maintainside, on the eve of the exercisions. Prover days fluttered from the rooftups of houses using in terraces.

On the greater's wandering salesmen set up stands and sold controlions. Others exchanged India's saffron and sugar for China's transmit intense sticks or Tibet's tarquoises. Himis Fair, as the joyous occasion is called, remirced me of a country carnival.

Red lumas in their dark rags prouted the premises oversering arrangements. One of them assigned a level space for my tents.

At dawn a blast of true pets and centles from the temple roof attentioned the opening of festival. Echolog from the cliffs, the music thated beautifully on the mountain air,

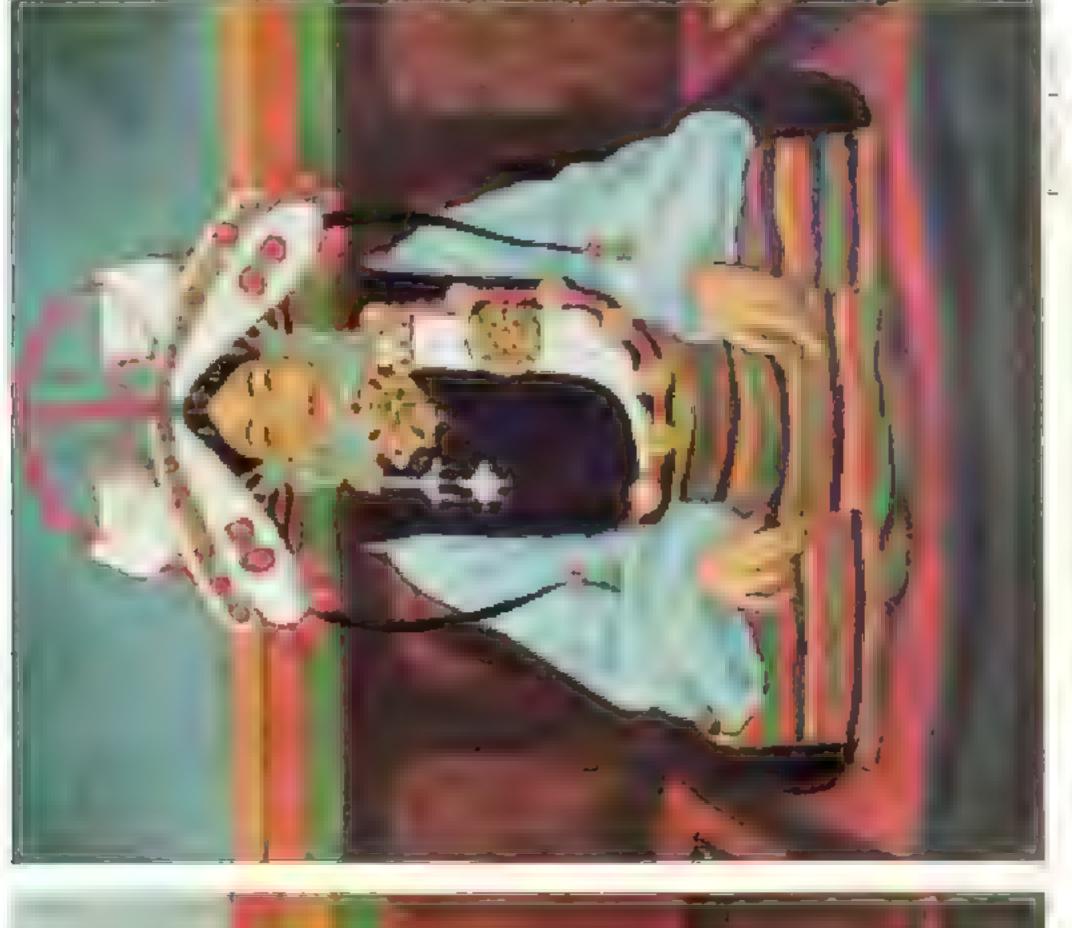


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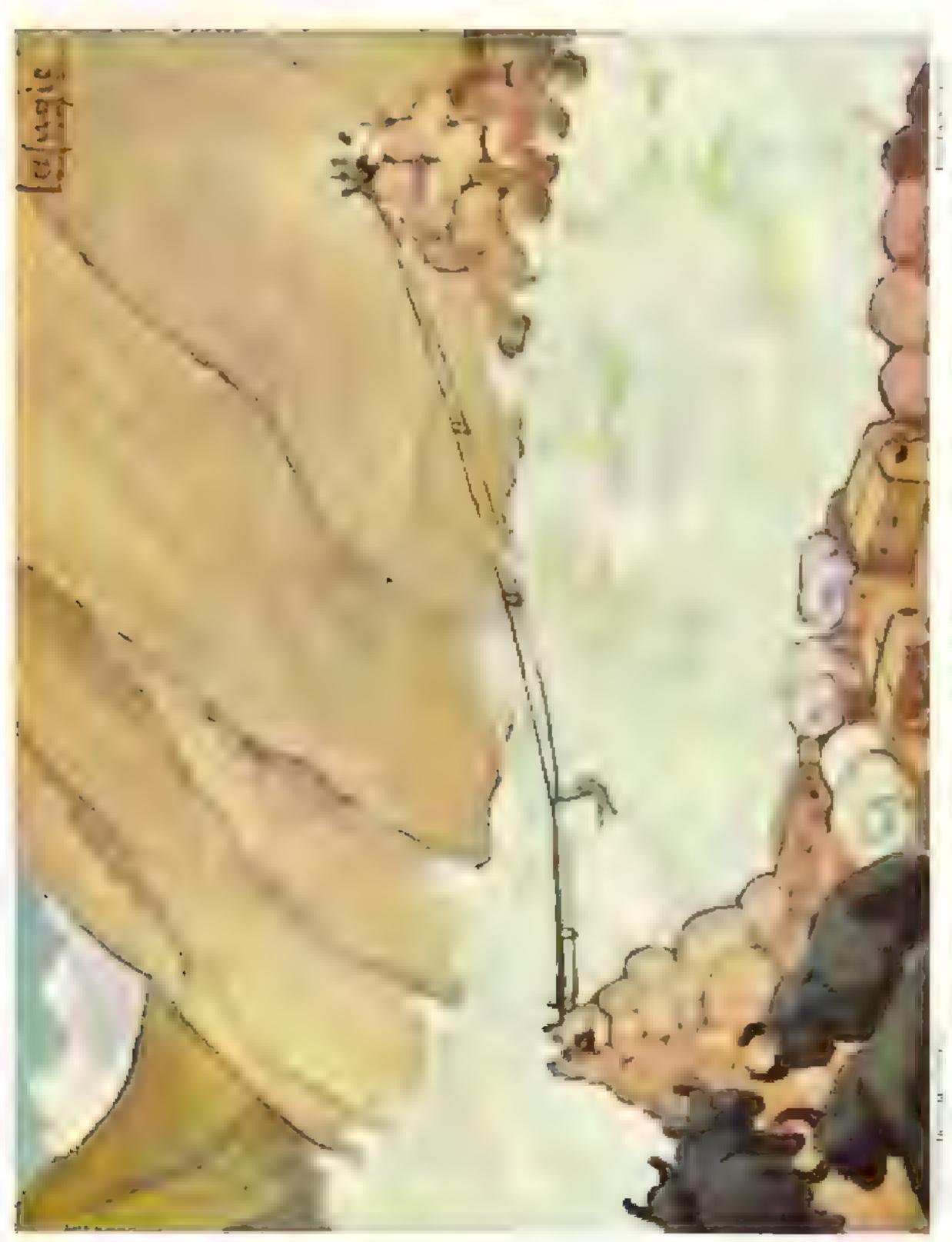
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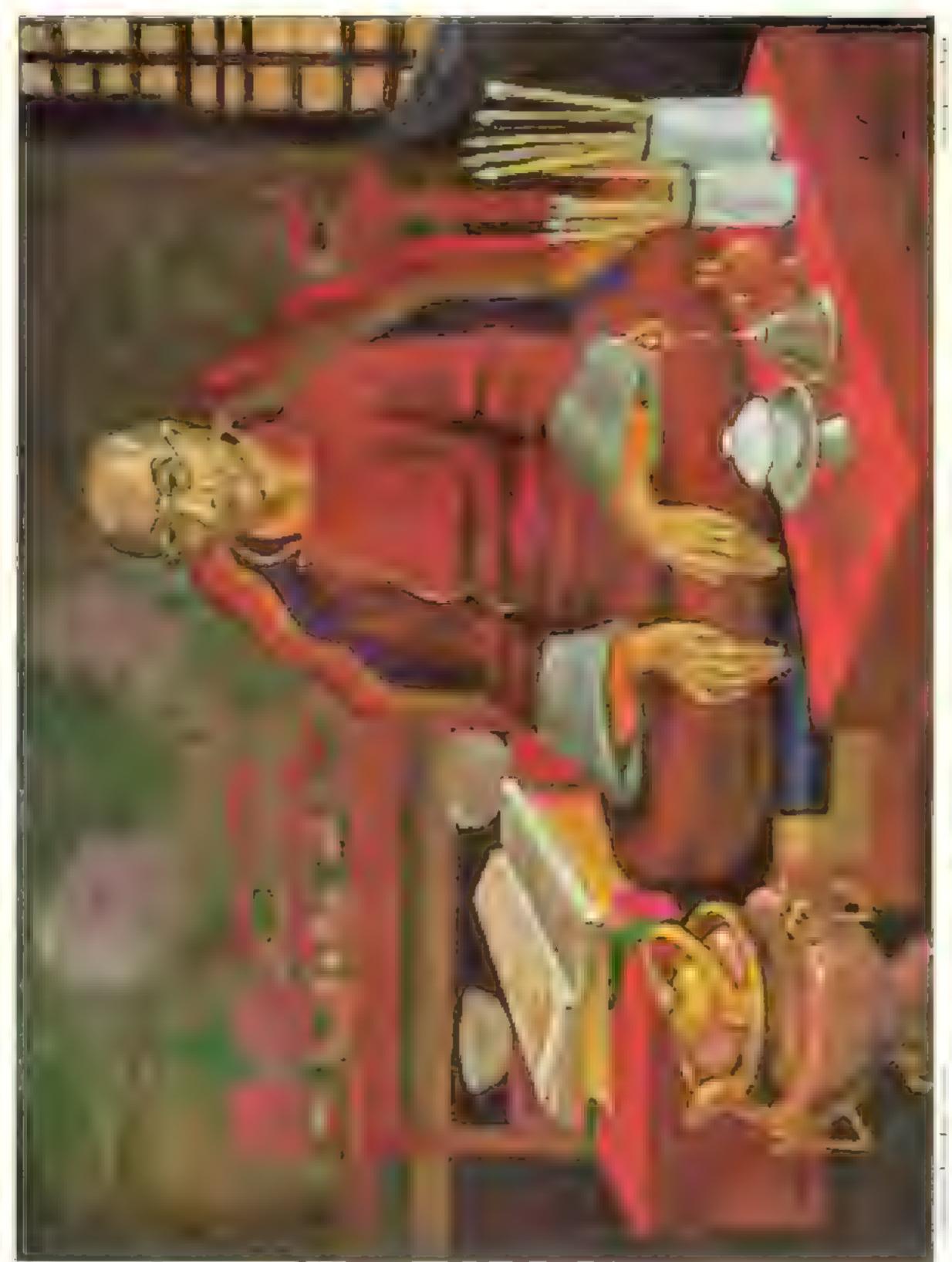




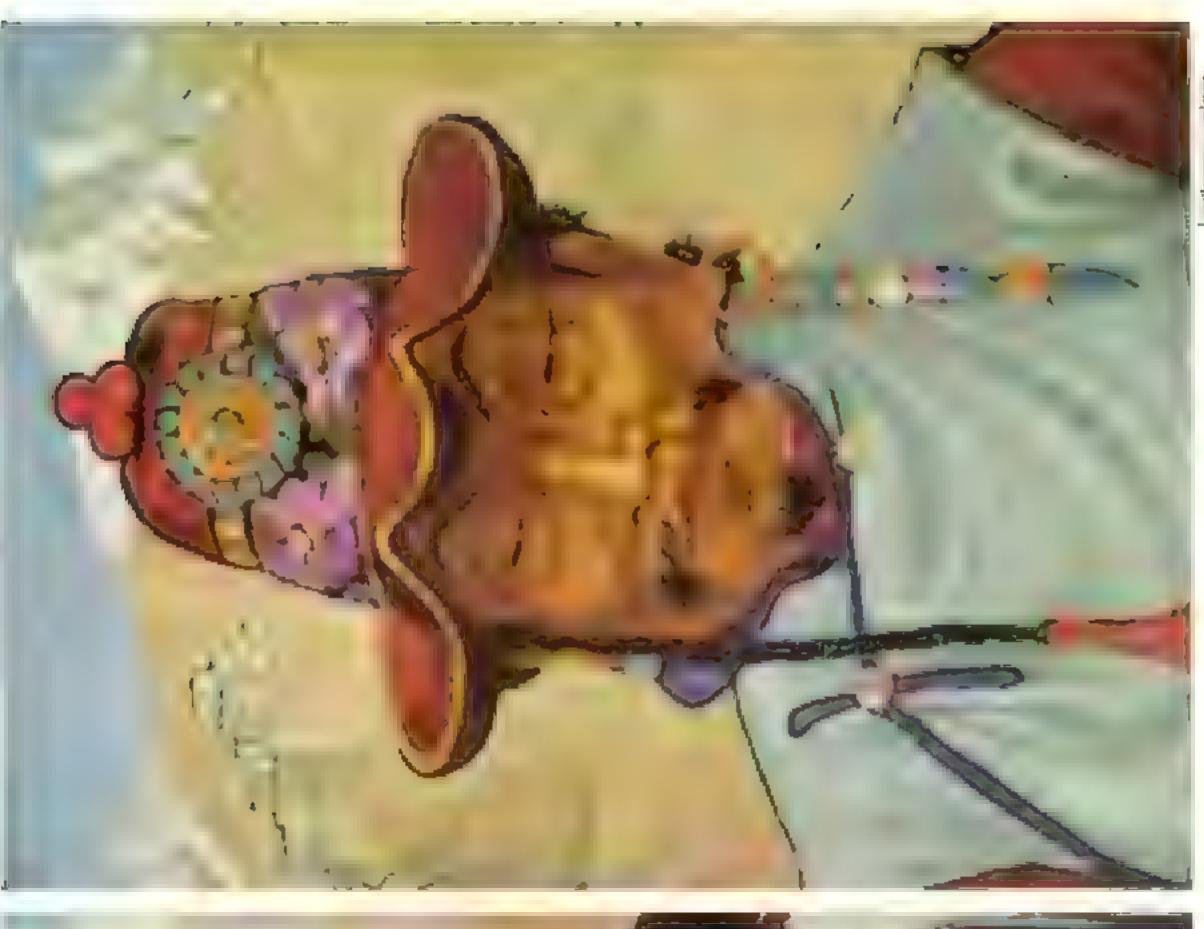
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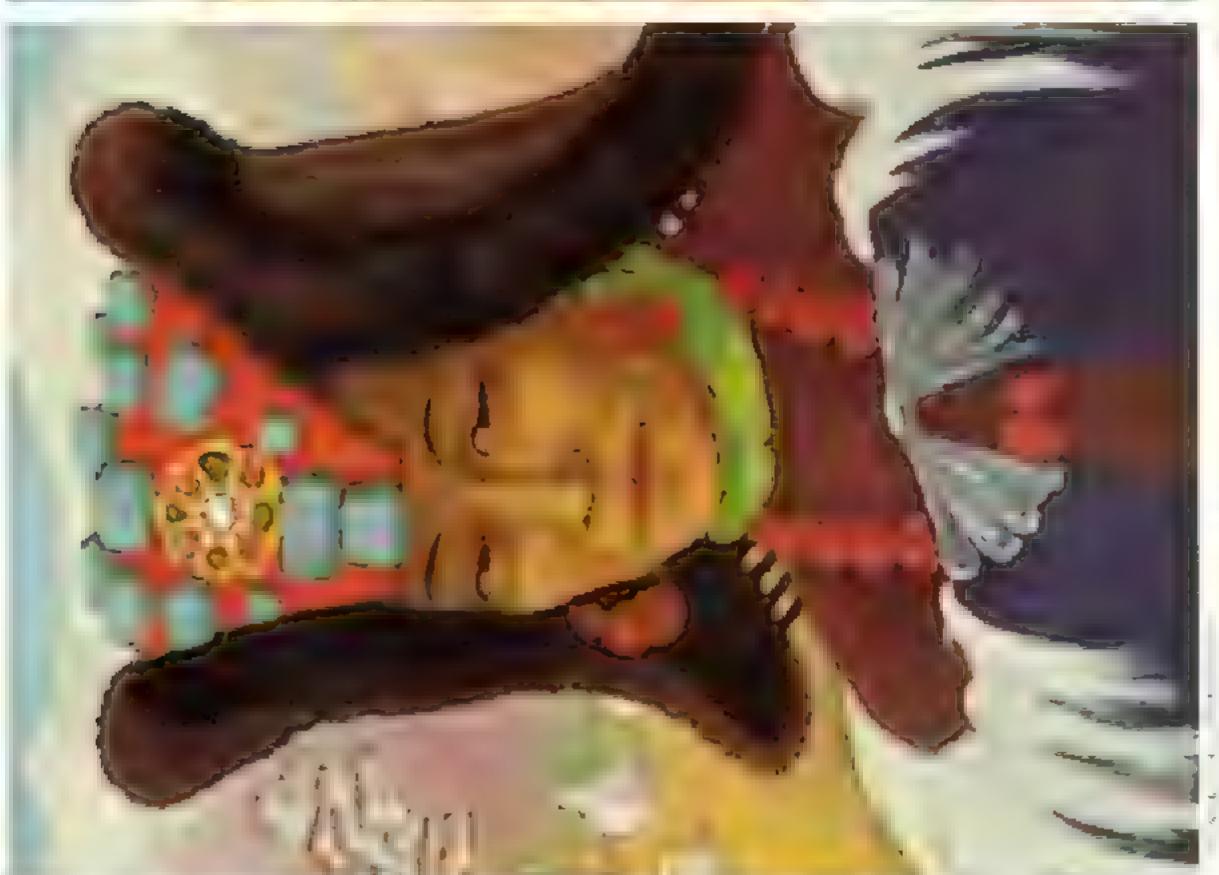


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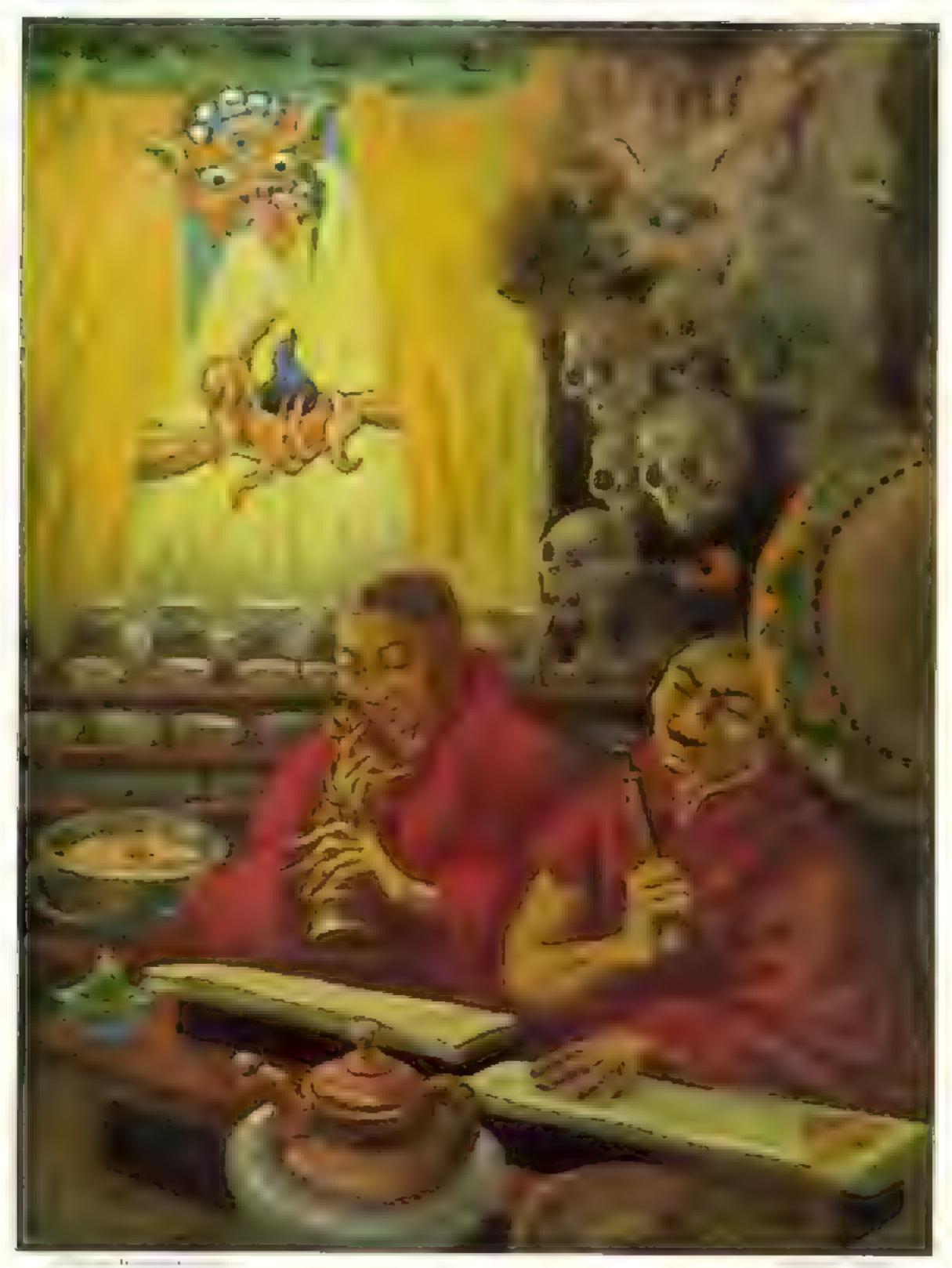
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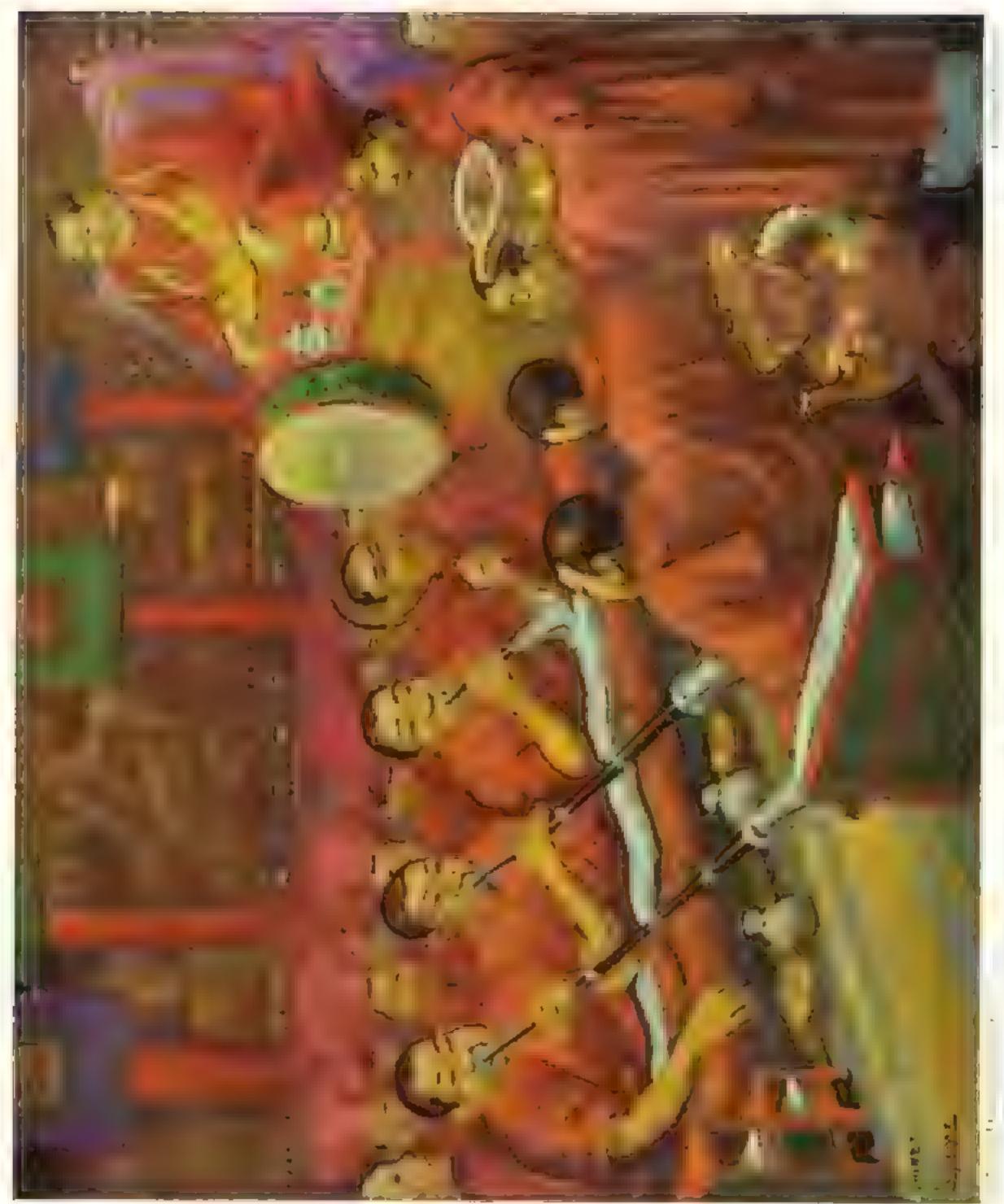
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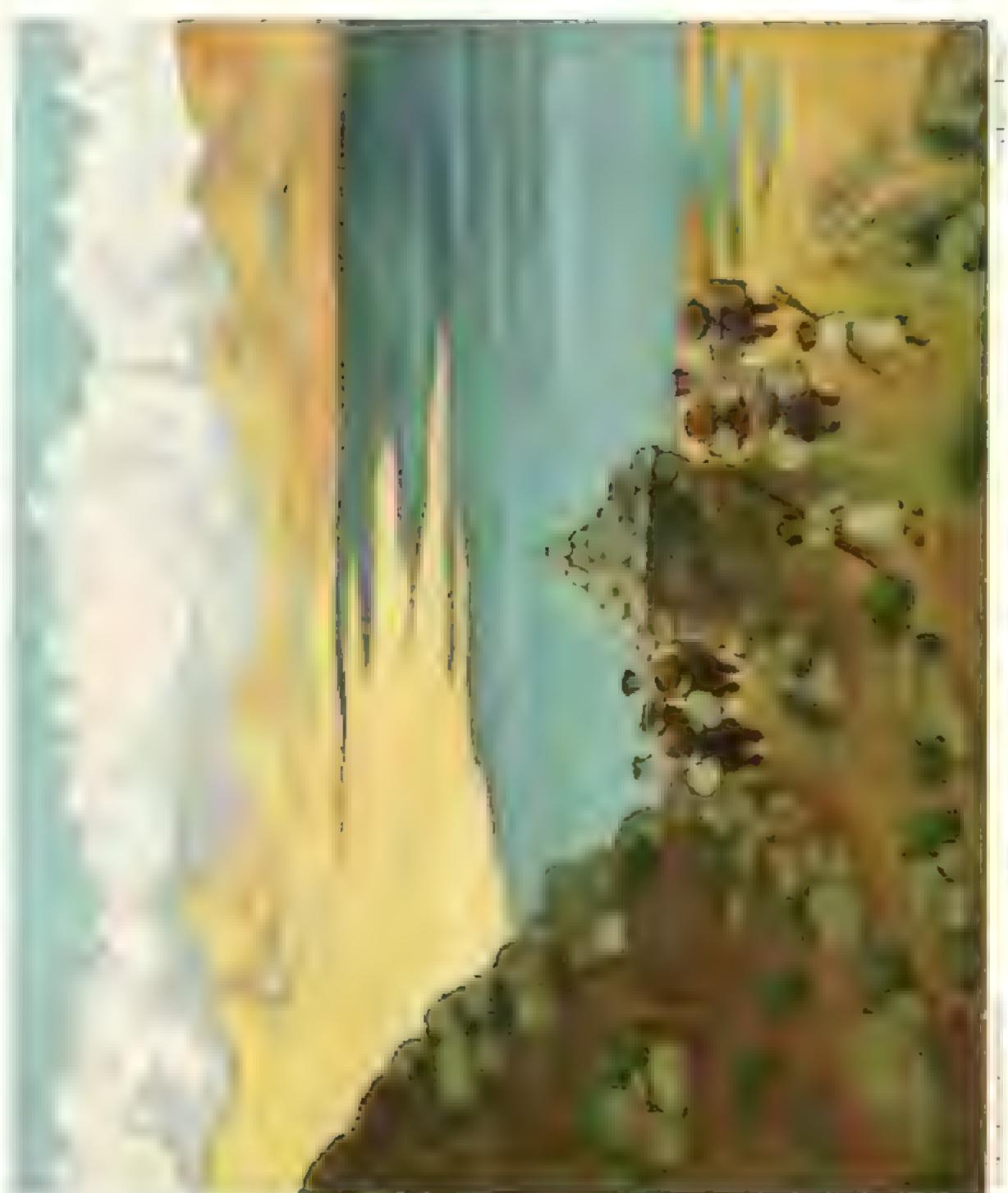
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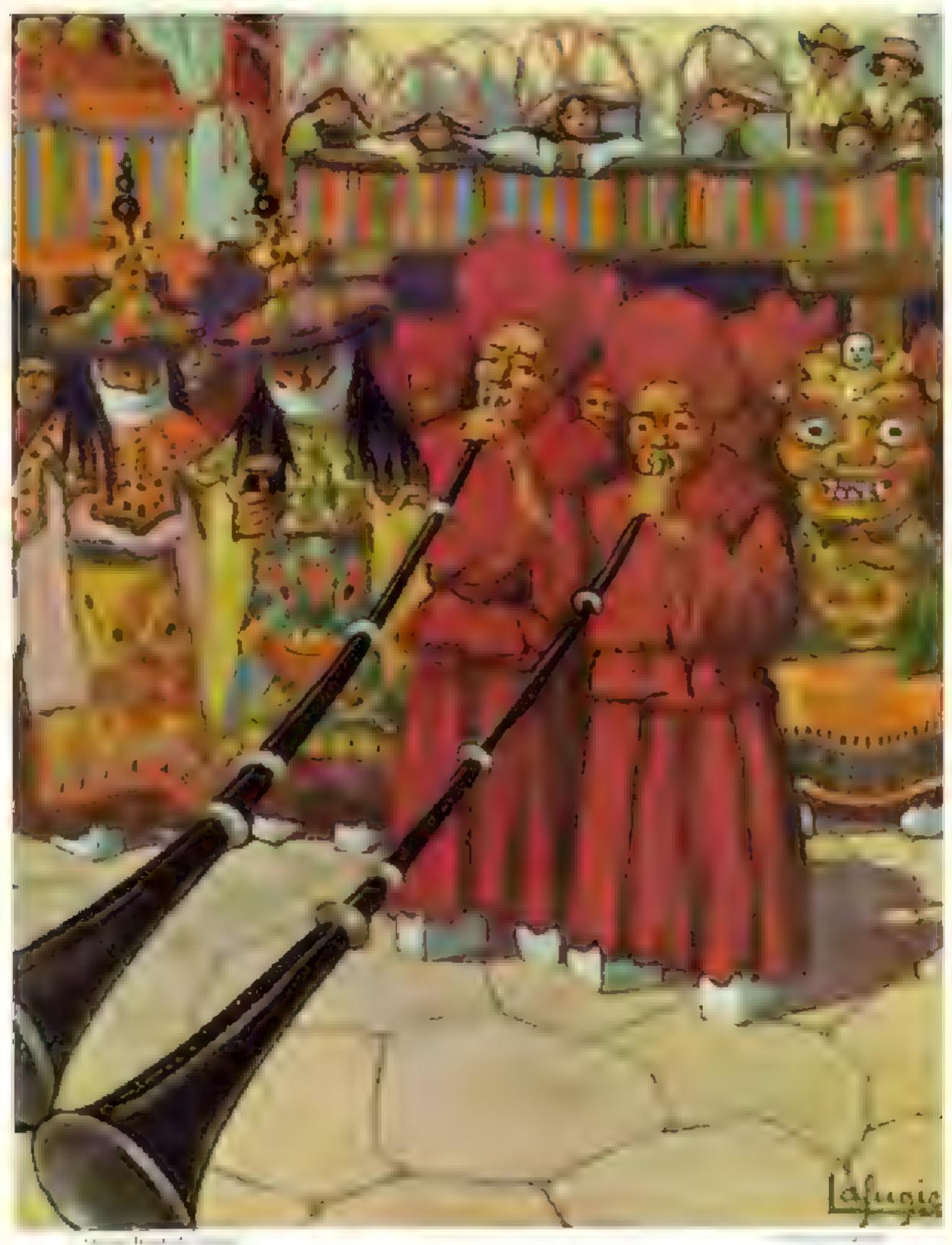




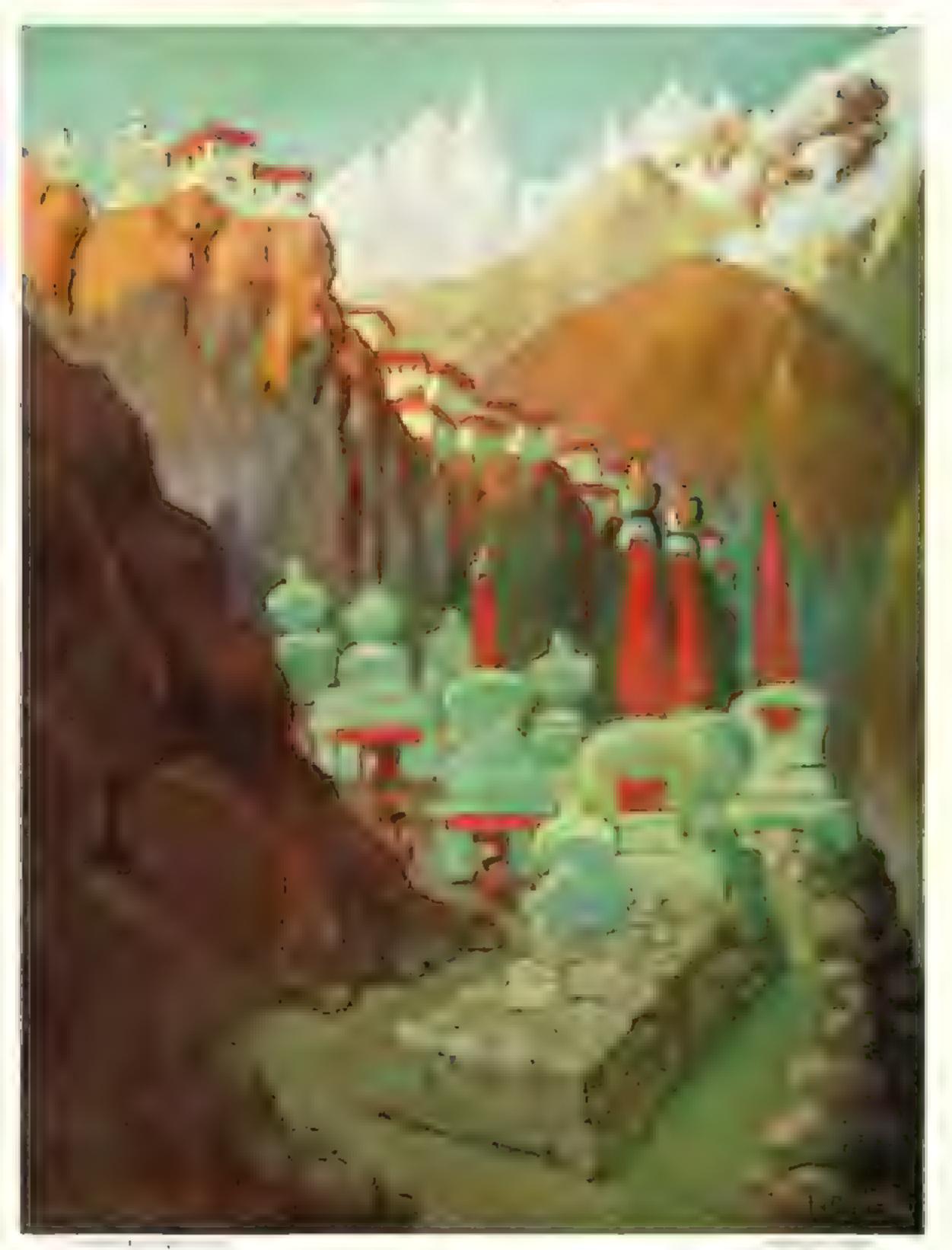
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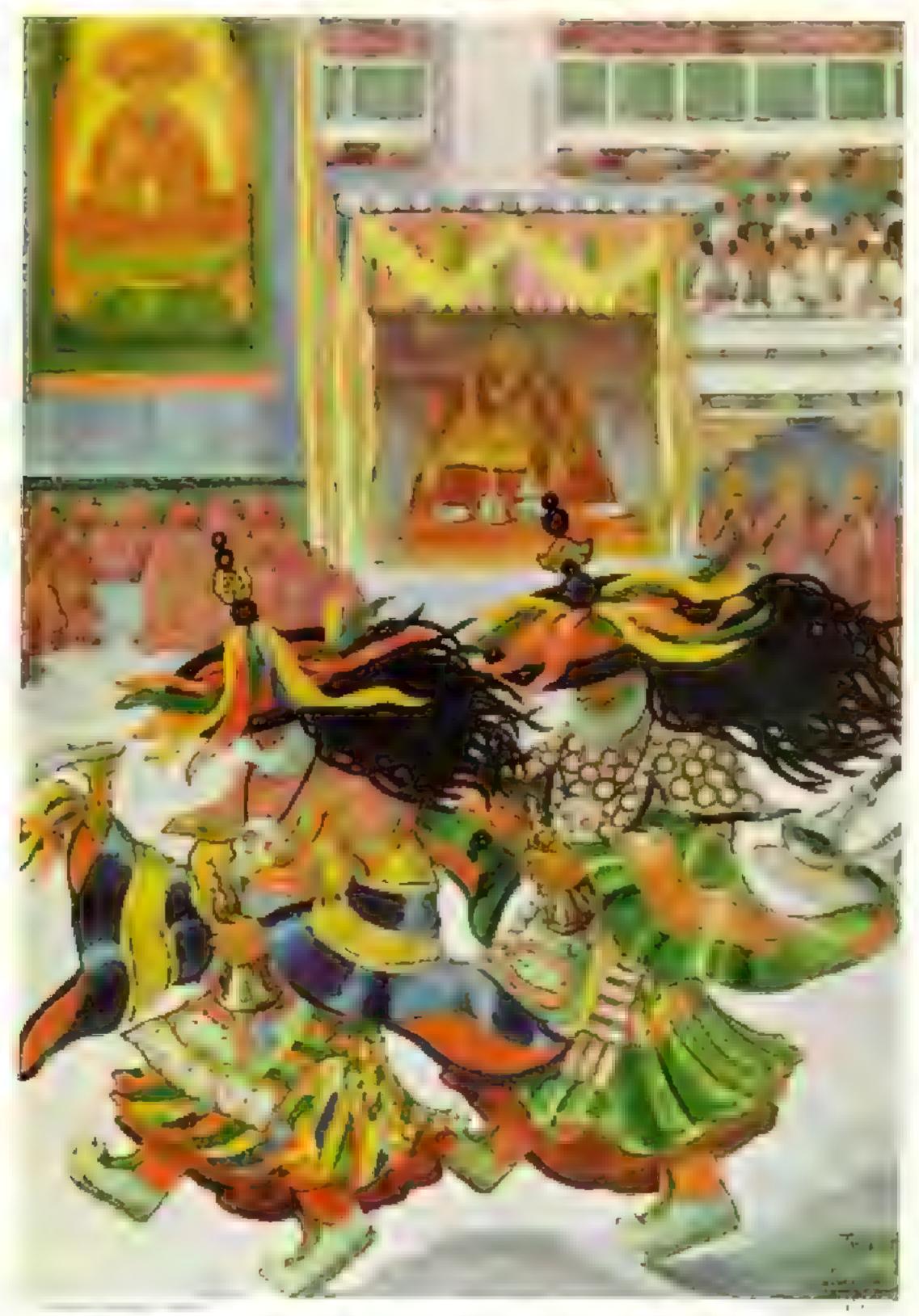
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I ma Massaires Blowing Blowing Design Commission Virginal David Dancers one Line at Hiras



Perpendicator Lawry on Springs Out of Cough Boundale Cheetens Are In Gardenous



Death solve, I Directs Bong Balls and Springle Holy Witter Debice Times Bales nes

Ascending the unio stateway. I prived at a courtyard where sunshine best down on a flug-toned dance floor. From my painting platform, a ringside seat assigned to me by the lanar, I could see the galleries filling with them in winged caps, wantern in huge festive headdresses (page 67%). Like circus-gorrs, they all lied to al.

Monks not taking part in the ceremony took seats below the 30-foot-long picture of a divinity and counted resary neads. Monitor lenses, armed with pules and scourges, kept

special us in place.

So notherabbot, or Skoolock, took his through branchit a ribbe ned and opy. There he squatted, legs carled under hum, not moving once all day

to my amoraledge (page 689).

Now a blace of barbaric nursit was sounded by a Linua crabestra whose 10-foot trumpets were so beary they had to be rested on wooder. Ho ka. The sacred Ameres commenced,*

All year long the spiritual manks, those engaged in meditation rather than in munding choics of the morastery, had rehearsed their mystery play. Before us they spread an orthodish spectacle of saints and smacrs.

Savage Demons Harass Helpless Souls

Trospes of demons and monsters danced across the stage of an atmortally realm. Marks marked on I costumed themselves as gruining salars, multiple-eyed monsters, savage tigers, and animated skeletons.

Comic demons, languing insanely, heat one another with slapstuke and, in a sort of black

mass, buriesqued their own religion.

Saintly limas scattered the evil forces. These havy men wore triters, carried pastoral crooks, thanted hymns, swang censers of increase, rang belts, and sprinkled holy water.

These buildhist saluts appeared to be temunstrating that man's helpless soul, wandening between incarnations in a nemon-sidden parentory, could be succoved only by a Lama's exercises.

I proved two half veiled dancers frocked in such gargeously endroidered China Allas that I, strived in plain khakt riding breeches, felt a time of fralcusy. Cascaces of release floated from their hats; artificial hair jigg ed with every movement. Each dancer rang a helf and splashed hely water toage 686).

Their castaines, I electroed, were worn above their everyday monkish habits. It strate the strate of the strate of

When the dance stopped at sunset, I wis happy to lay down my work, but one more sketch was in store. Some curresity indulging

monks introduced the to a native extist, in the hope, I suspect, of observing our reactions.

My Thetan colleague was an exponent of Liast's sacred arts, engaged by Hamis to descrete a new addition.

The Author Sketches a Lhasa Artist

I watched aim painting his matals, till conventionalized divinities and demons, and when he saw me transferring his own fore to paper he was anazed (page 677). Never, he said, but he areamed of working with live models. Always the copyist, he reproduced the ancent, stylized sacred subjects.

A shy little man, he smiled wistfully when I gave him some of my paintarastes. Using his Tibetan seript, he signed his portrait.

At 7 o'clock one morning I plinted the

monks at puja, their mass (page 674).

To reach their choral ball, I was conducted the righ glownty, cavern as passages. As we approached, the mafflet, best of goigs, teampets, and from soun fed like the muture of turning water deep in a dark object. As we entered, hundreds of manks started latening their hymns, reading words from silk-bound tands or a "."

The or or of incense and melted butter, the scene's boild vermillen and gold, and the or-chestra's strainge discords all tixed my senses.

Through the thick fumes hundreds of glowing eves seemed fixed on my hand as it moved across the sketching pad. I was watched no less closely, I imagined, by the chorners traditist derties on the wads, whose fewthes were lighted by inster lamps.

At the close of a psalm a tea bearer filled the wooden bowl in front of each man. Into their butter tea the monks dopped their tsamba, kept beside them in a small lag. With his firgers each man is wiped his bowl, cold-treamed his face with the residue, and dried his bands on his gown.

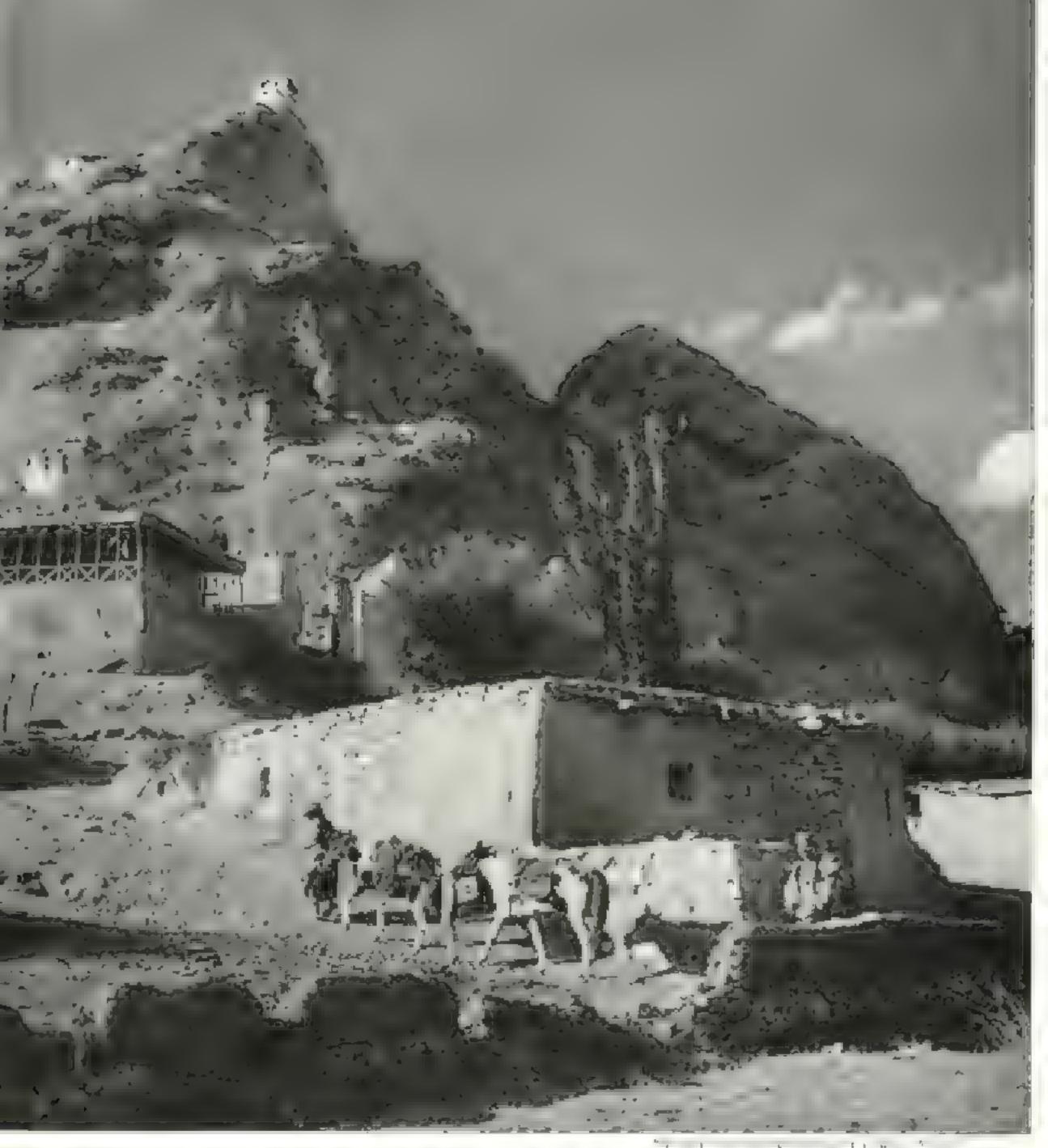
Artist Calai on the Skushak

On a high throne sat the unnot, presiding to the Shashik of Hims, he was revered as the incarnation of his predecessor; a buly man who, entitled to Nirvana, preferred realerth on earth that he might lead his fellows

Since my visit the Skushok has died and has been succeeder by a child, presumably his own soul shot in new firsh

Having seen me twice ut work, the abbot invites me to call on him. I found a m in a reception room ceconated with caseaues of silk piblious. The Skirshok, clad in severa-

"Water the New was Chambers of Managers of Chambers of Idea" [44] alls in edge, by Joseph & Rock July 1931,



Where the World Howls Fiercest, the Land Builds His Monascery Map a Fontastic Crag whithis had a second or a secon

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1, a skusbok and a grown to be Wake I never understood; never knew what som begrind de mist in get at a 5 the state of Suckledg, whence comgrowing to Leb, was me and

In guide me, the governor assigned one or If you and hang our his chest a copper plate in a sembed of authority to communicative pack. a 16 -

11 ms porters I outfitted with snow the delt-limed losers, and beavy blankets I e to alf I bought a sleeping bag, for I is a first and distance up to 15 000 feet The region to be made to purchased crates of I to stone 15

Hy Yak-back Isosord the Karakoram

As a real sold as an their place in are od six gales. Tiber's domesticated will ox and be est of burden in the high pla-

Yaka I harmed bore domestication lightly. A record to make the stable of the could be sufficiently n no a la la corners, spilling lagras or the transfer in the section of the wait buse care priority places, thought and a The gradient is the state of the state of

are expussion to be a local to the same they would do pest. I preferred to walk wherever I exual; but when I grew tire! I world require my wooden saddle, sit crossand, grate the ropes to the yak's nose ring, and fry to gode him. It was to recover the wilful beast paid little hard. I learned to give way to his whims

Toiling Up Wals of Snow in July

On our first evening out of Lab we comped if the fact of Khardung Pass. It was bitterly rold, and the stars were shining brightly when ... my awakened me at 2 o'clock on a July corrected the value exembled as the menpacked them

is one mount to their up walls of consteal - now, I grasped his shargy har to keep tions failing backward. To resewe him a steeper slapes, I thank anted and continue; on foot, at times on all feurs

At 7 a.m. I was the first to attain the summit of the pass (made pan). Through I saw other waks' black beads rising above the some, eves bloodshot, mazzles drooting. U Laded they stretched out on the away



Clause for Smiles: Fashion Never Changes

In the latest series of the party of the latest series of the latest ser

The porters kindled a fite of arged and larged to a large of and drop brack to a large of the water boiled off before it not set a large transportation, All the chickens, I from that our had of the cold,

by to closic our party began the disact Two men with pickanes went about to har's sters in the fee, but they could not gave the yaks from provision-scattering slides. We halted at 14 that night

Now we entered a wind, precipitous course of indescribable grandeur. Once as I lagged beligned in a bleak no untrin valley, my men and beasts looked the ants best in infinity

We reached the valley of the Nabra, a stream descending from Karakoram glaciers

Perfers Stick Out Longers ILss thanks

For ending, we found barley growing at 5 Off feet on the outsairts of a village, the first seen in days, Here we camped while not servants we sated to thes and baked bread

I paid off my porters, giving each a list ful of rupee: I also a list of the ground, stuck on hing tongue, in La est

I climbed to Sumur Monastery, petched above the village, and arranged a suting with the knully abbot. Himself an artist trained in Lhasa, be had painted the will of his study to the off the drawing love in Tabetan style. I are a him new particular style.

So grateful was the good man that be gave orders I should have morthing I needed. More needed, was not treat to the

The village chieftain was obliged to pund up the animals, and, when he name I his print agree it must be printed to sat for the formal to supprise of this is a second to a se

Grisds Signs Warn of Diszarus

Now we advanced into a propotonous comptry, taking stepy marches necess glacial momines. Here and there we encountered the wass of mental their perished in barray

the subt sicken my porters. We could not have to cross that there has they are a soft return in the mape the snows. It reed to turn hit to be a new note one that would not the per law there.

We advanced on a tipely ofer tipely and skirted in the places one common extent winds from the glaciers one common extent and parened my beneath the course

We search an 18,000-for particle when I rise whose 17,000 to the right of the transfer and my breach without nausing clumb only a few minutes without nausing that the transfer we apply it. I have out assirted to exercise

We struggled onto a high platen. Never had I brighted such decelation as this desert



Passmaster-Telegrapher Doubles as Menoralogist. He Has Plenty of Weather to Water

The board of the filling a lattice to take one of the mid was a record to rectors for the first termination from the kern hand the graftle than the from the weather a trade-off the first and children, the weathers in a first trade-off the second configuration and the second of the second o things of wine and definitions time. As a terrorapher in the town of Dias by will write the research

A DECEMBER OF STREET bleggt sastrick with his strengt stow, and parale.

Marble Mountains Dazzling White-

V ravine through which we passed was I ned with shining marble. Aimd its duzzling white we suddenly inited the enantid-green and say thire-Line waters of Lake Pargong.

The the second of the state of the state of the List and the contraction of the turns, to our left the jeweled I ke (page 67 o.

One news I could not re . the temptation to take a buth. Sendi in cry caravan abead, I

extisping the light the not like energy to keep from freezing. Now I appreciand the Lacakhia' disinclination to but to

I few days later we cleared Ching I'ms (13.370 feet) and descended into the valley of the Inches. We returned to Leh without further adverture.

The following year I undertook the and expected to the least of the model of the first of the first This , but he talk is not a first and a second

the same of the sa the time to the property of the Col Hills Till Been by



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F States of From Mark

A Tibetan C. Sure. First de Hire la Battered. Then It la Plained Like Twine

The same and a second s

Le ving lit recling, at the first of the Hamalines. I crosser into Tibet, sketching a larter to half and a lart's cremation on the way

At Phari Hang, a mass top act as all plants u, I painted my fire subject on Track

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I while must be the mode, who extend the meads, this mean had bet his him grow past his shoulders.

Form of his art were arrayed around him

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there is the making strock the statues of their and the statues challed programs to other administration of the statues of the law of the period period beneath as a possible of rithems.

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A house was received once. The arthur to contribute to contribute to the formation of the f

The following the state of the



A Civerated Indv's Crowning Glory Is Her Wonden Hat

If the first of a steel with ted, with girlies like the toke or a Resignature. On the the fullbook counts count turquates, she us of seed pearly and one-sines pole. Collect turness counts for a tilber and (page 50%).

remain away from my quarters overnight.

I work to think the last two to the contract of the c

First evening saw my sketch box crammed with drawings. One of my subjects was a contain caravan leader (page \$77).

Gyangise's Governor Presents His Scari

My first call on a state official was paid to the governor of Gyungtse, a Lhasa nobleman partered to a fort commanding the city (1.2) [11]

As the hour of our appointment neared, the governor sent profiles for me and my interpart results of the sate of th

Following a Tileranter, by Jonesh T invited his enveroor and his lady to my house the next day for a Fato-pean tra

Kerping Look of for their armyal. I was of mayed to see them outliveed by 1, manual

Many the art of the same of th

"It's all right, a emthat," he replied. "It the custom to fred the guests' servants. I muited them, and I have bought (and its

It is a greate en joved the I tench cake. I had carried so far, but shied from my tipsel wrapped chocolates. Not until I sampled one.

did the governor try normaly, first day on the transfer of the 12 months transfer of the 14 months and the 14 months are the 14 months and the 14 months are the 14 months are

presented a tin to e | but my guesta nearly a control watery European style tea, and with the triple and the tea.

As they departed, I went to the roof to take their photograph. Tray' proceeded only a hundred partis when they paused to brew their own thick rancial after tea

To show In appreciation of the jam and chardates to serve text day sent me at the part of sugar, and a land.

As and he possil for me, dressed to

his official traveling clothes. On his felt hat he wore a gold and turquoise jewel denoting his rank, so that people might recognize has authority. When he removed the hat I poticed an identical jewel in as a chart

After I finished his court it is a few transfer much or soul.

The first transfer to a first problem (jurge 457)

I said these is a state of these chathers where an a second control of the second contro

t, are stated industrial

the inplaced. "If you do, i shall a rik, waster, and reports

Later the government WI CHIEF THE PHY TO I Part of happress I the Bucket part. 1 the fort. A block of chestra made such 🧸 din that my poor faterpreter could scarcely understand a word Menservants catricii 1. 138 of food into an Li orately furnished ters. The repast was i join of with chang. r les teet, surver Tit sliver pot

I ach of the 15 ladies insisted on draking

to a dissy by the time the fourth bowl was contact. Cheeks begin tongues wazgon, the ladies were gay and friendly

Visitors Too Noble to Walk

When I admired their silks and jewe s, they reacted like wimen all over the world frame insisted that I try on their finery, but no one wanted to put on my plain riding breet in boots, and beret. All were puzzled by my mannish balreat. We hoked our another over from herf to but and laughed

A, sunset the visitors rode home, each followed by her servants. They were far for nable to walk.



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As Worly as Hes Herds Is the Namadie I betan Shephend

tere or a hard thusters the property as being an arthur for the party of the control of the party of the control of the contro

Later I painted the governor's wife in Gyangtse headdness and one of her friends in Lhans style. Such primping! It took them an hour or more to adjust their elaborate has the angle of the figure 557).

The are as a super rest of the part of the part of the super rest of the super rest

On he is recommended to my gallers of important personages

My caller it med out to be the governor of the hung Throng. He was an young, apparaint a that he had not earned the right to wear the turque ise of authority in his bat, but he did have the official sear pendant (page 575).

Has natural corpulence he escagerated by wearing several robes beneath his brocaded like cont. His arms, cramped by these layers of garments, bulged out like a crab's legs.

I was surprised, on asking for my visitor's signature, to see him sign the picture in Tibetan and Lat a script. D. G. Dingja was his name, as you will observe. Afterward be proudly shook hapds European-fashion, an accomplishment he could have spated me, as his forgers were smeared with butter.

I made numerous yisits to the religious quarter, which contains temples and domitories enclosed within a high red wall (page 638), Pilgrims, making a four-mile round of the monastic city, proceeded like inchwarms, falling that on their faces, stretching out their arms, praying, rising, and repeating the roundine every few feet.

The lamas, getting to know me, rever failed to invite me to their important terrmomes. One day I pointed student manks of the Yellow sect reciting their lessons in a magnitudent

aurary (page 60%).

Weird Sight Within a Locked Room

On another day I visited Dongse Monastety, west of Gyangtse. As I was touting the place, I beard muffled voices coming from a locke I room. My guides obligingly fetched the keys. The opened door revealed a small chapel it by a butter lamp. Skulls, tiger skard, and stuffed amonals covered the walks. Bowls of hely water stood on an about.

On a cushion sat two lamas, one a novice beating a gong, the other his good (teacher) ringing a bell. The instructor, I gathered, was teaching the scholar to renounce the pleasures of life for the tranquillary of Nirvana. Life was symbolized by a statue wered to show only the head and a man's and a woman's clasped hands (page 672).

I spent half a day in the dark chapel, completing a water color by the light of the butter lamp. Though my guides left the door open, the odor of incense, staited at huals, and unwished garments almost suffocated me.

Not once did the chanting lamas book up to see what I was doing. Had they not pansed now and then to pour lea, I should have thought them in a traper.

Interpreter Awed by High Lama

Afterward I visited the high lumn of Dongse and showed him what I had done. My interpreter was so awed by this hely man that he kept his face on the floor during the entire interview.

That evening I was the guest of all the monks at a generous dinner which included

meat. Having galacped our horses all the way to Gyangtse, my servant and I arrived dead thed seng past midnight

As summer wore to an end, I went back to India, keeping my pledged word, but I had

permission to return the next spring.

I started the third expedition from Sinda crossing lofty mountains by the Pabang Pass. following the course of the Indus River for many rolles, and eventually returning to Ladakh (map. page 661).

In the wild, tenute region I trave ed, settlements were widely scattered and trade nately defined. Small glucier streams we forded hand in hand to prevent our being washed

away in the rapids.

Larger streams we spanned by rope bridges. We spent two days crossing the Parcla Rapuls

(page 569).

One of the villagers, for a price, swam the key river while towing a twine attached to a heavy cable rope. When this cable had been stretched, my men ferried the stream on a chair operated by rope and pulicy. It teminded me of a ski tow.

Ah the people of the village gathered to theer my crossing. Guets of wind setraining down the garge swing me back and berth, and as I looked down into the swiring, rambling explas, I wondered what would happen should the rope break. I nearly fainted at the thought.

Our pack bases went across in the same manner, but the yaks, poor beasts, were pushed into the going. Bobaing like apples, they succeeded in making the crossing nearly a nake downstream.

Without further incident we crossed into Ladakh and, following the ladus, made our way to Left.

Asia's Gorgeous Costumes Are Passing

Thus ended my experiences on the roof of the world. I have forgotten scarcely a detail because my brushes and peacils eached in memory every scene painted

As a result of all my travers, I have a gallety of Asiatic types which has interested students.

of ethnology everywhere.

I doubt that any artist will ever dupl cate my work, for the reason that he will be unable to find the gorgeous emproidery and fanciful silks which even the almplest peasants in Asia used to wear. Within recent years the native, aping the European, has adopted fromers and skirts of the theapest cotton like folk costumes are fast becoming museum pieces.

For additional articles on Titort see "National Gammarine Magazine Complative Index, 1899-1948."

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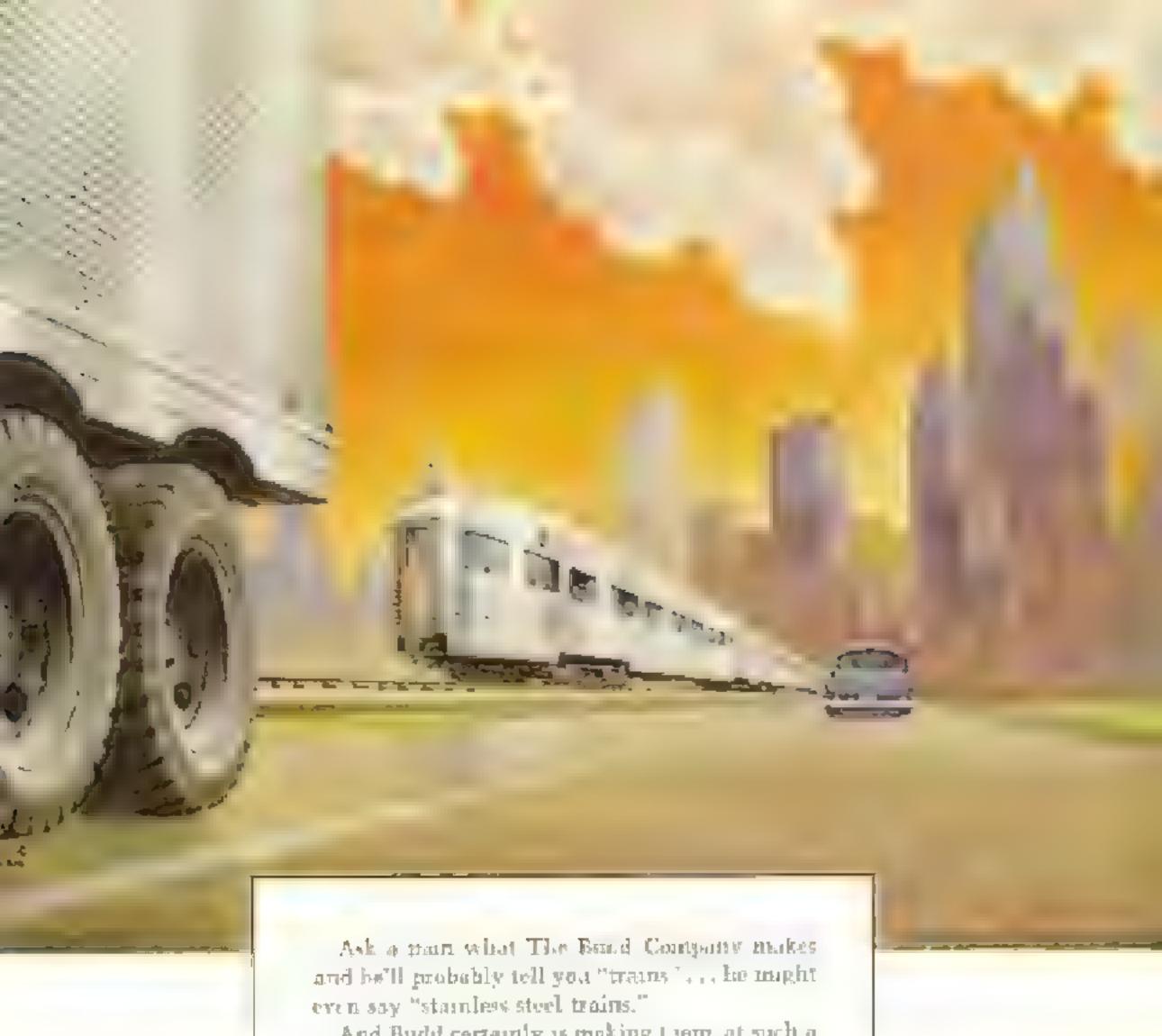
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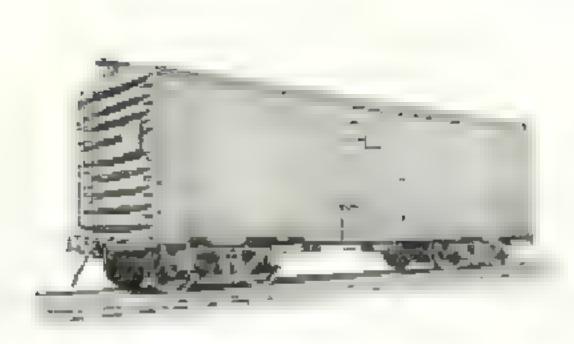
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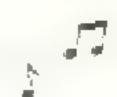
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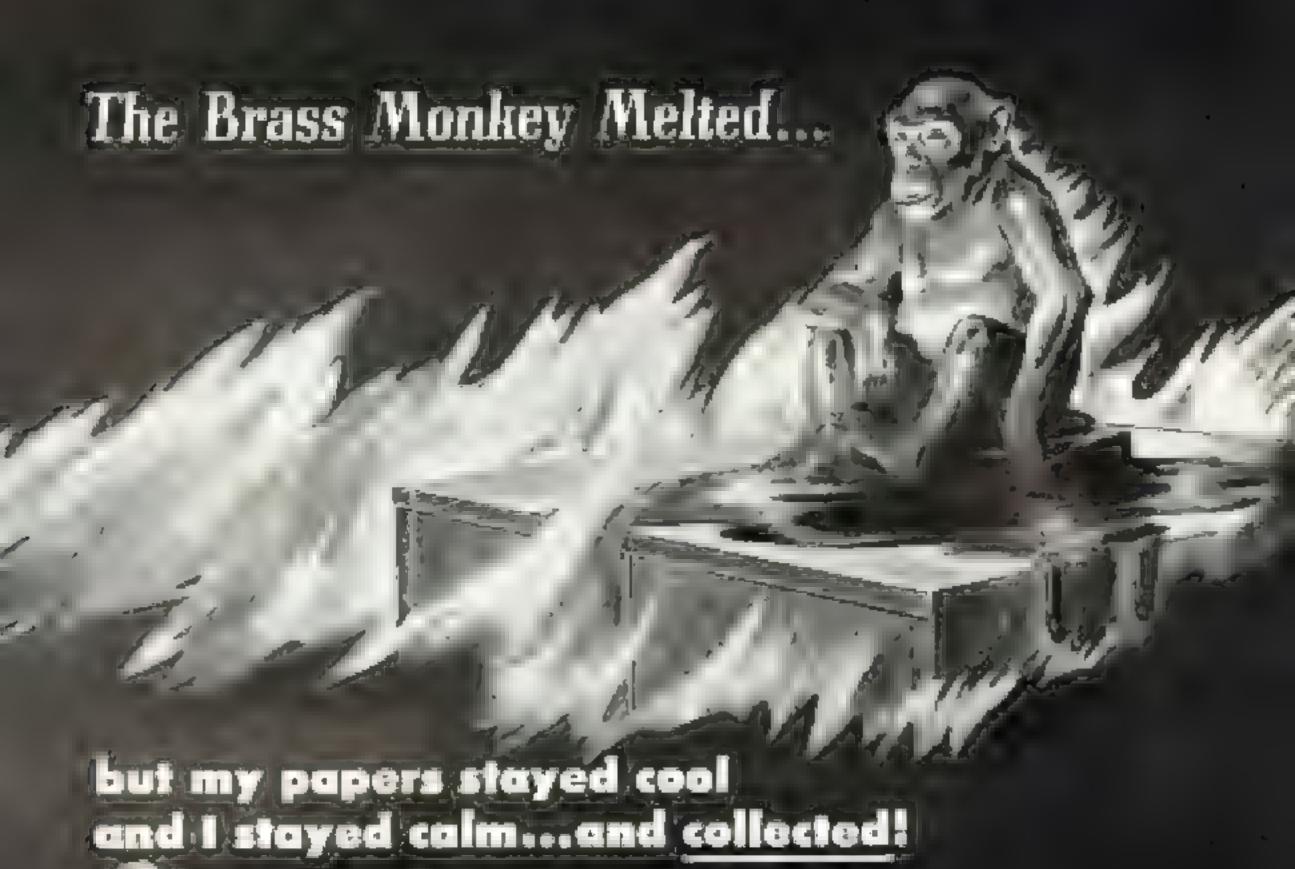
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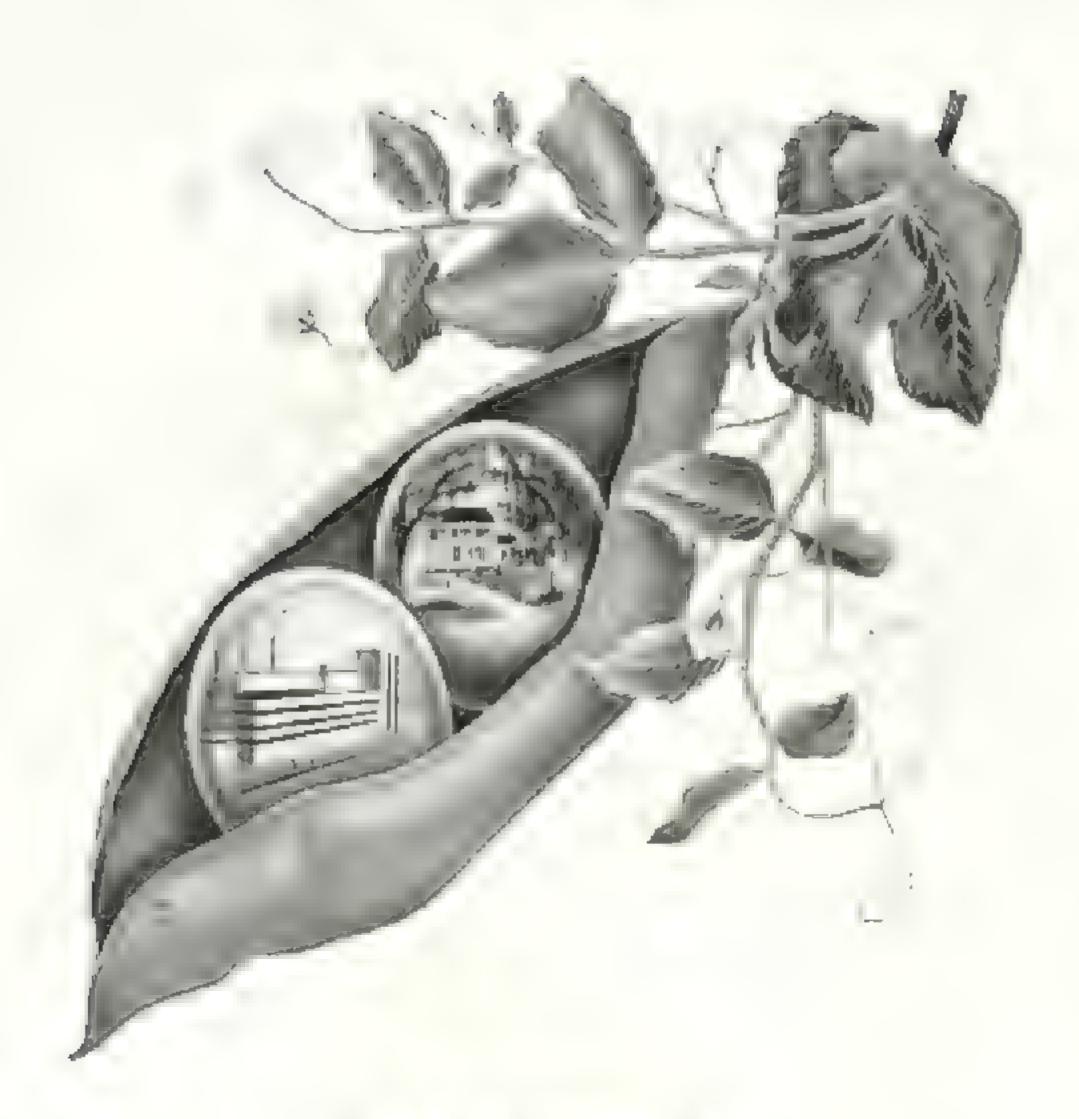
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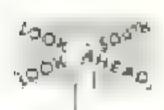
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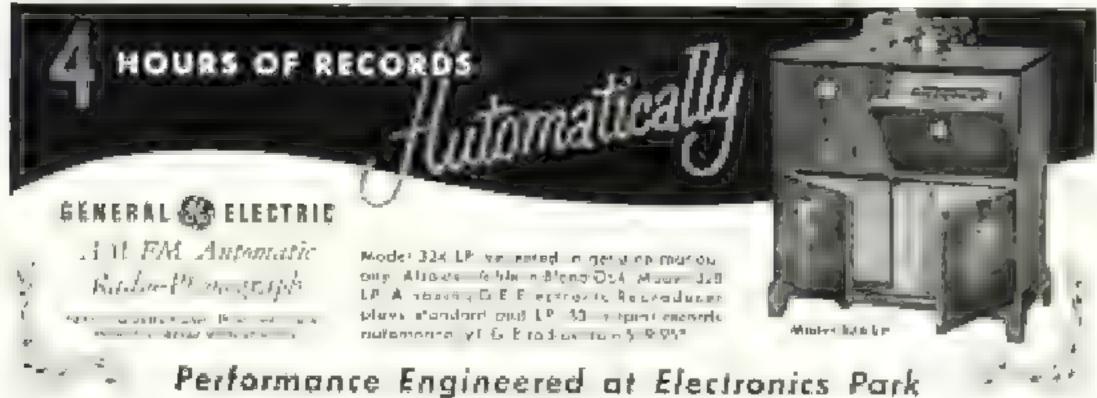
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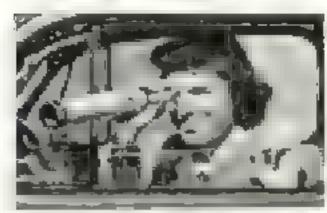
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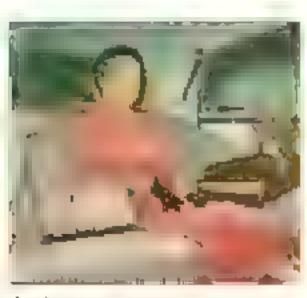
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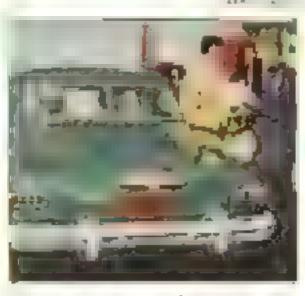
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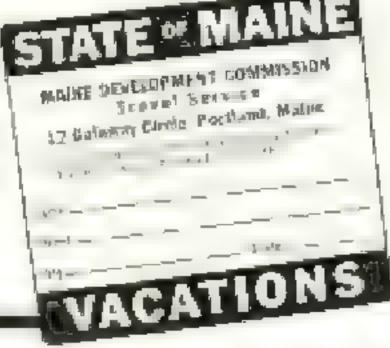
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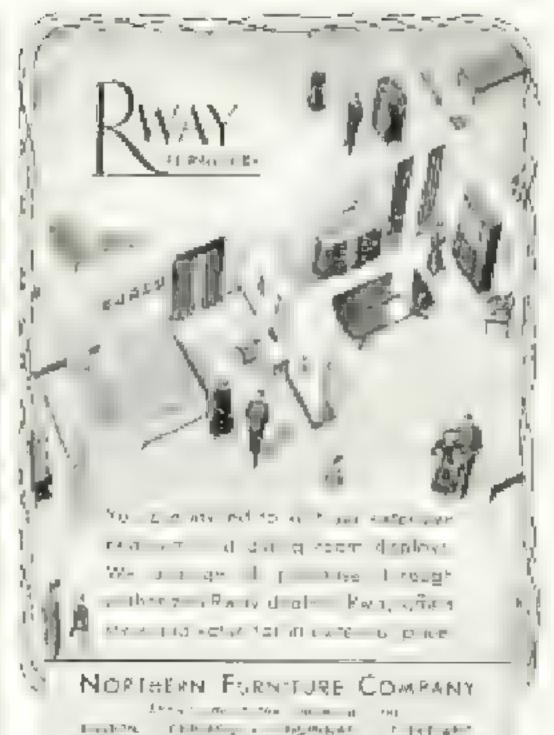
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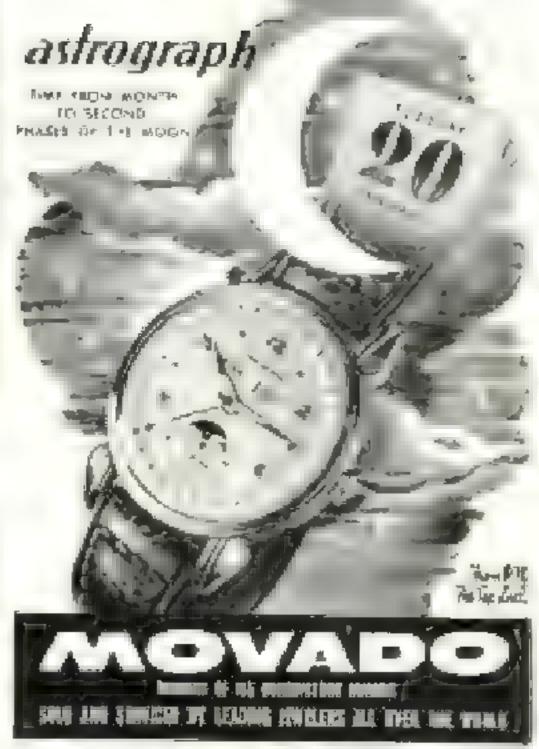
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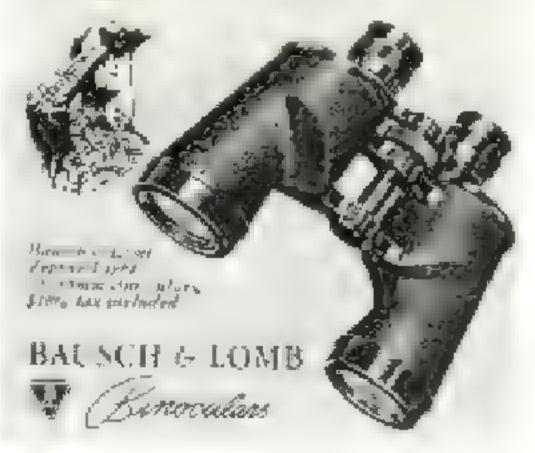
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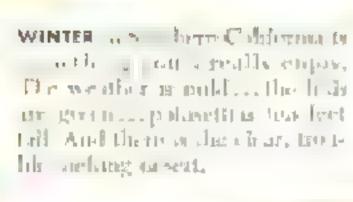


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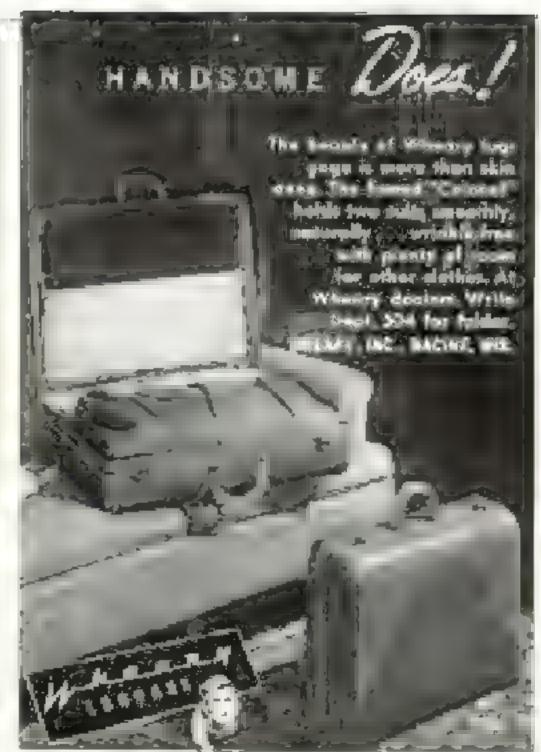
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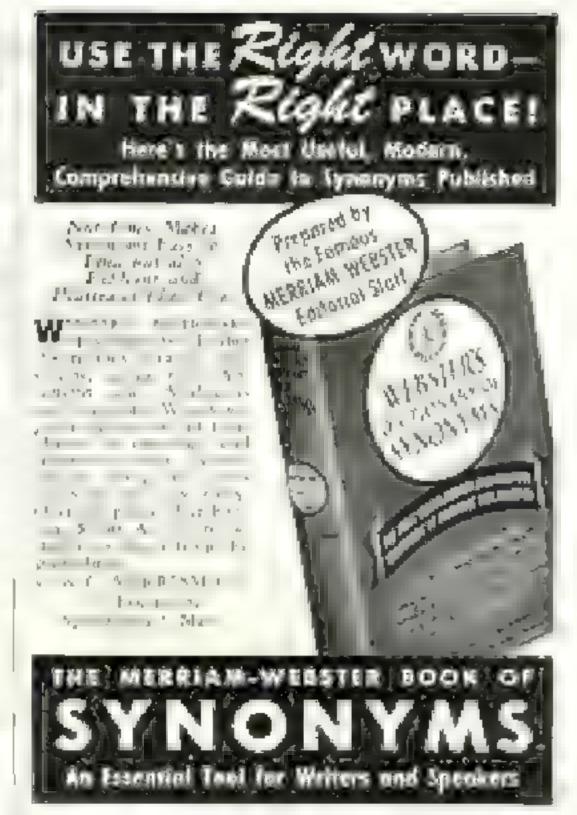






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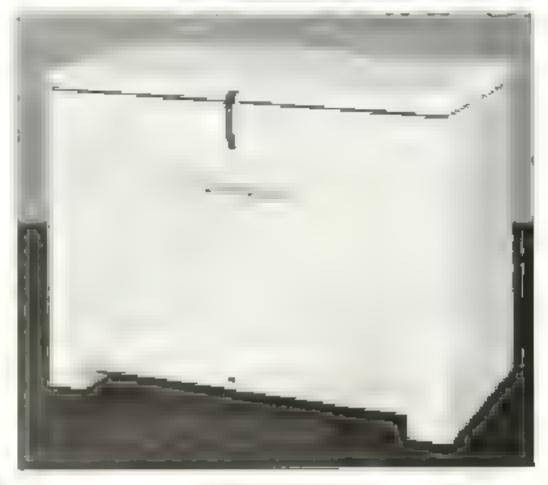
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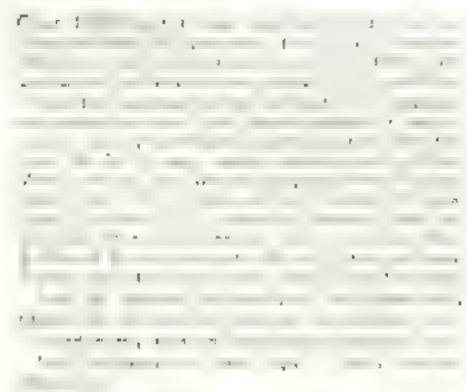
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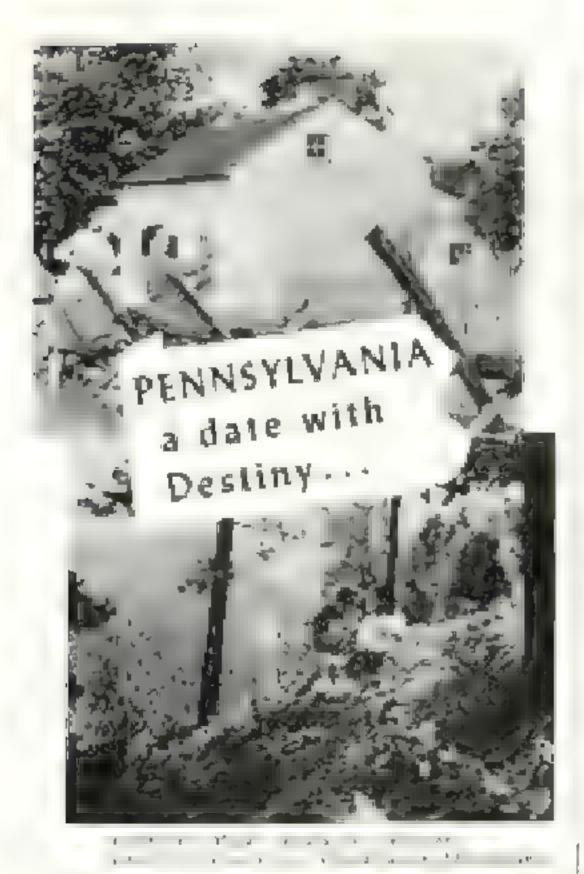
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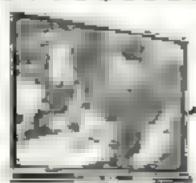


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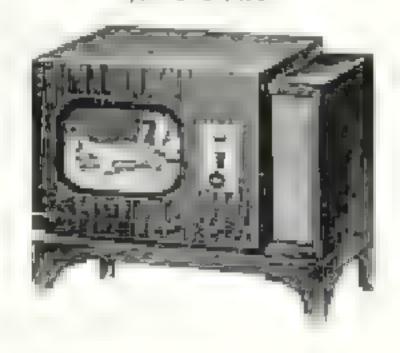




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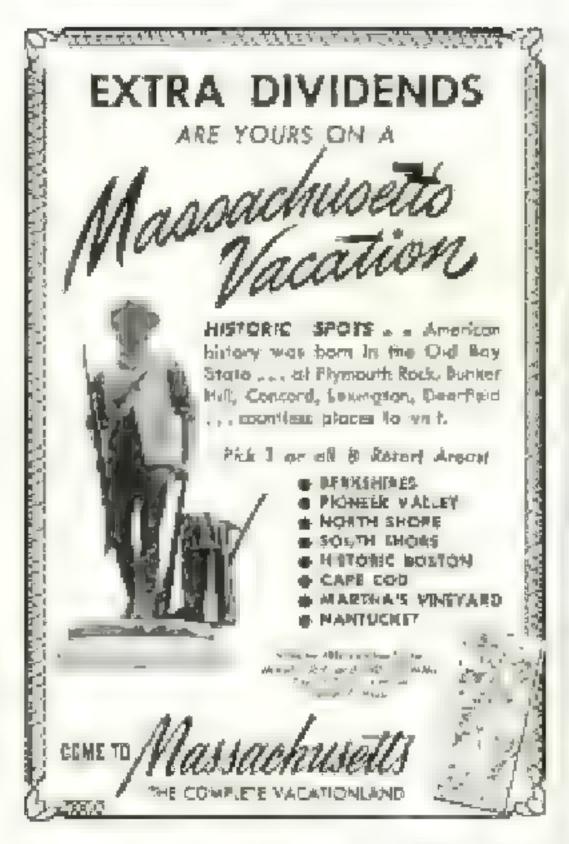
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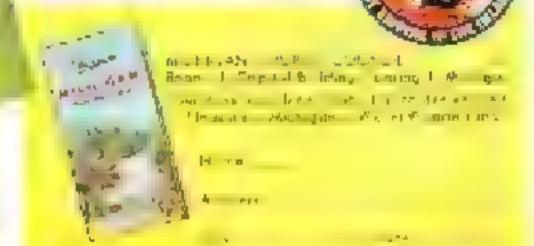
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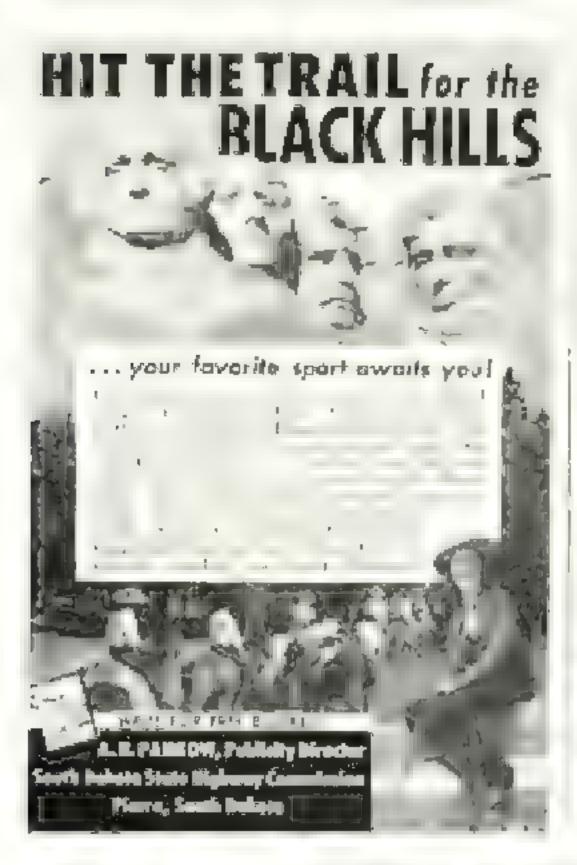


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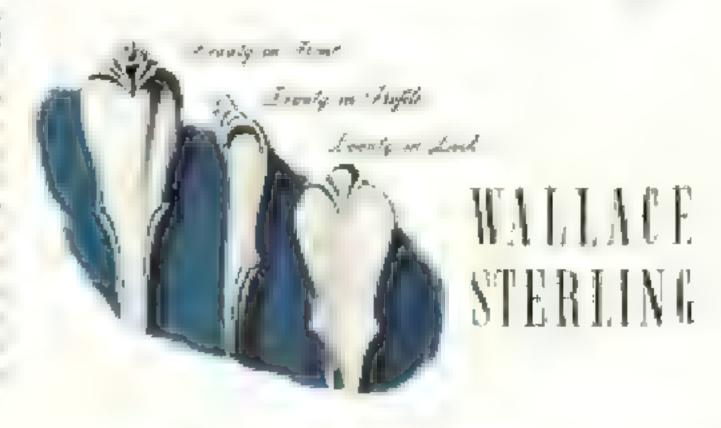
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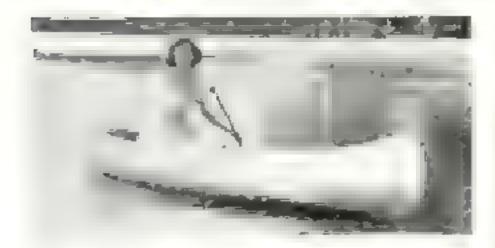
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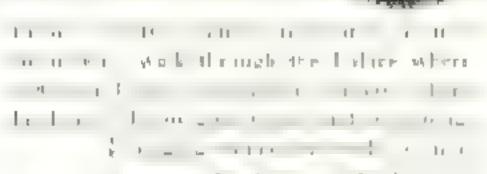
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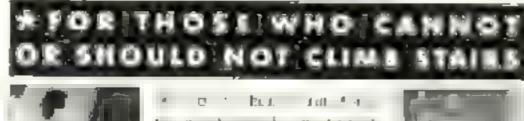
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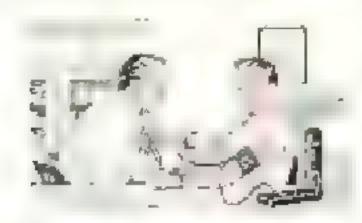
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Some Facts About HIGH BLOOD PRESSURE

Humon reconnectives when a person is active. After the atmin has passed, the pressure generally returns to its regular level. If it is persistently and excessively above normal, however, that condition to call of hypertension—or light blood pressure. The offer to the carculatory system and may lead to serious conditions of the beart, beam, and leadness.



High blood pressure itself is not a decase, but a symptom of some underlying decoder. Medacal science to constantly increasing its knowledge of thes condition, and is striving for unproved methods of treating it. Special distail nye sometimes proved effective. In a limited number of cases, margery has been used. Additional perform is consumering on mental and emotional factors. There is also hope that newly assured drugs may prove beneficial.



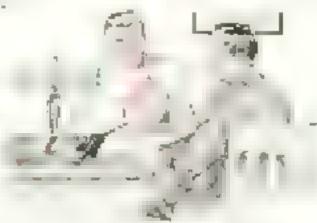
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In many high blood pressure cases, the best "medicine" is often simply necessarian in correspondent and mental actions. The patient may be educed to work and pasy at a slower pace, to evoid emotional strain, and to get plenty of jest and sleep. This helps to besen the domaints on the creatance exercts, and may lower bood to ever be.



Trainy, under good medical guidance, the outlook for people with high blood pressure is better than ever before. By carefully following the doctor's advice, they can often award complications and look forward to long, medull yes.

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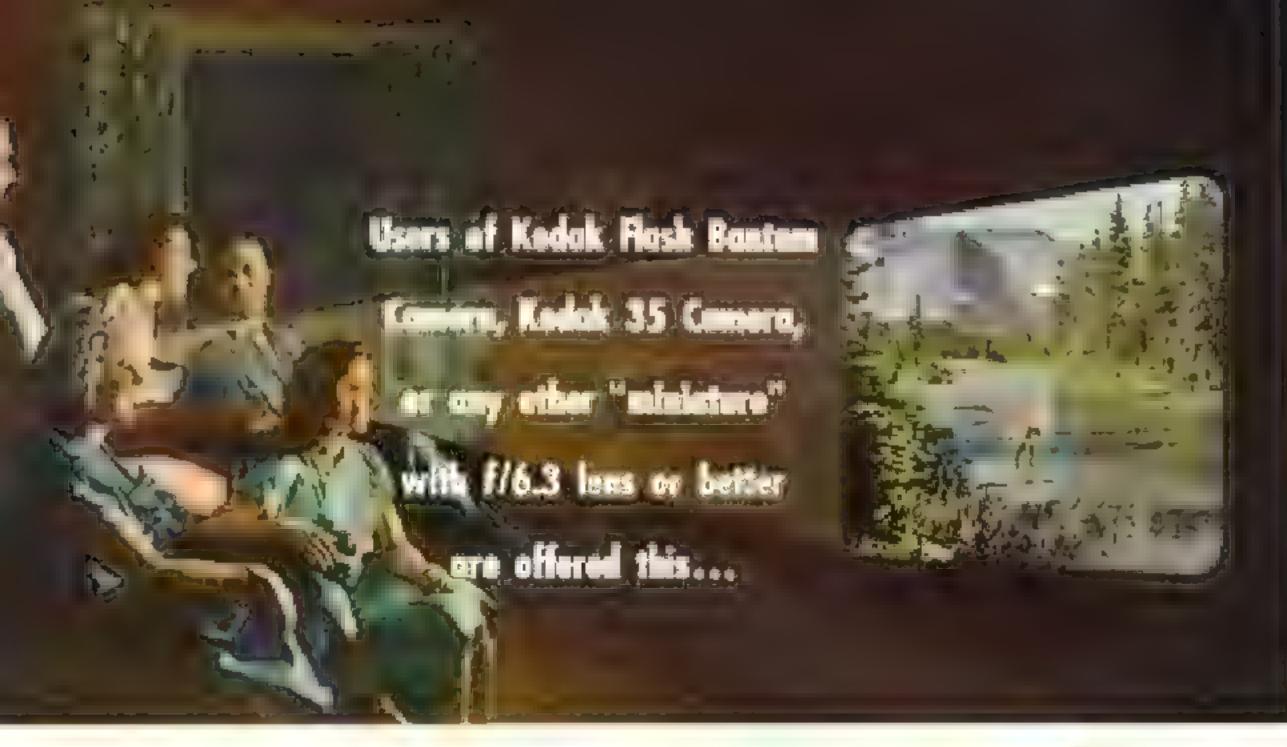
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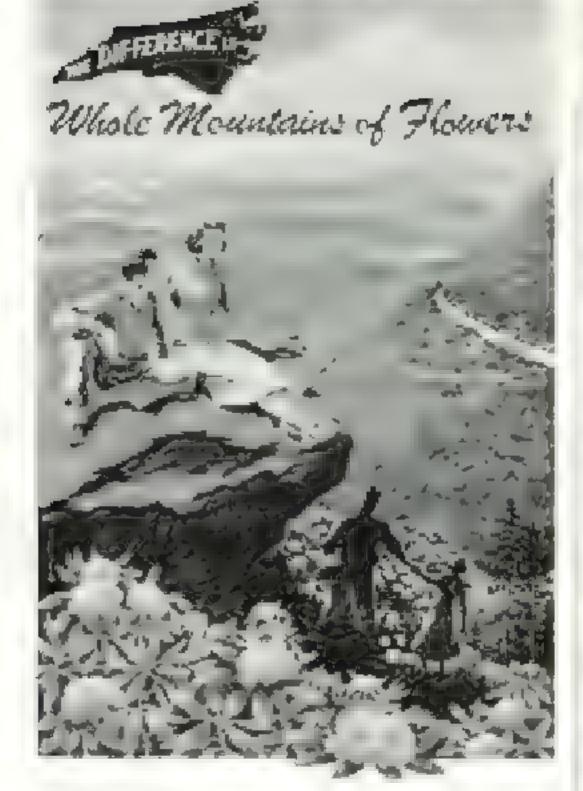
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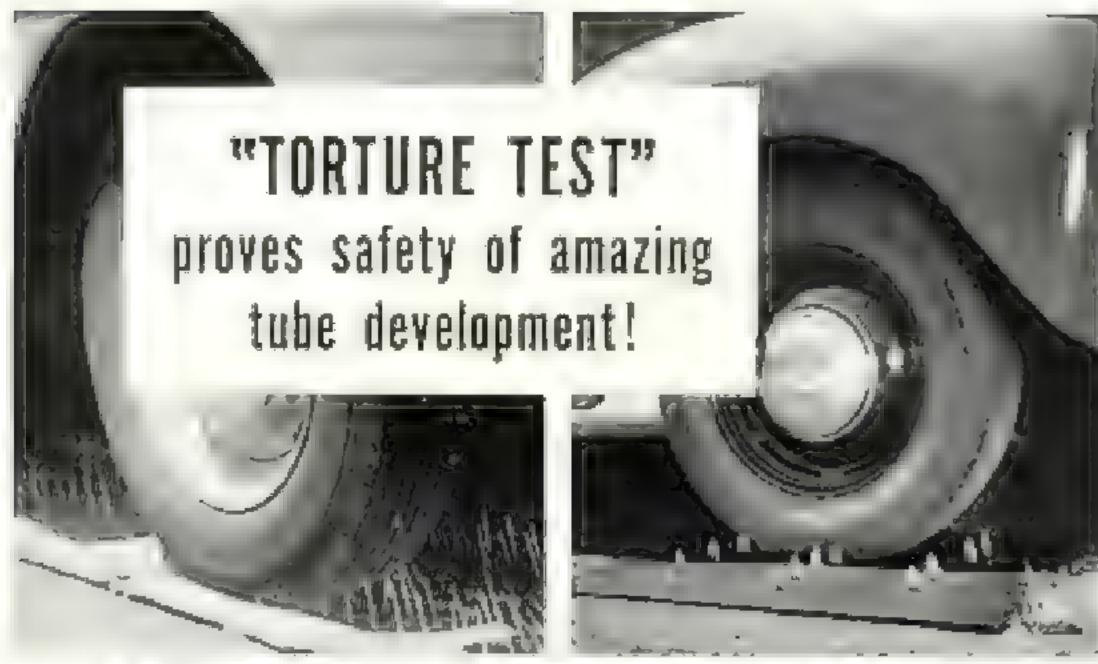
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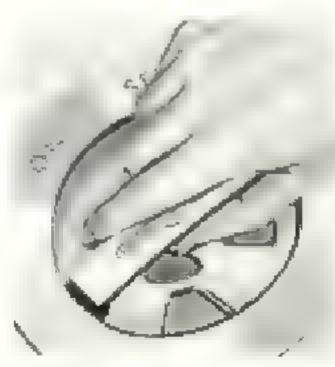
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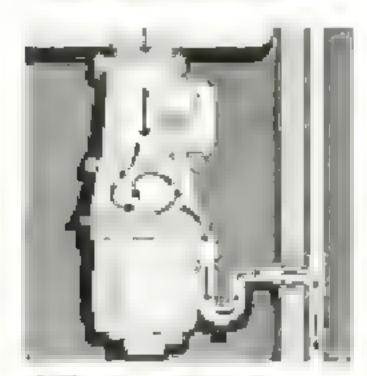
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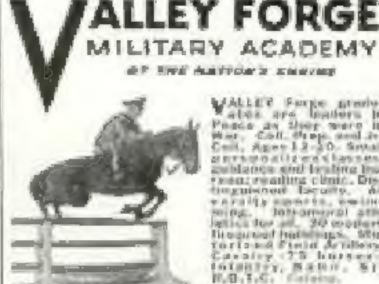
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